

CALL NO. 317

CONTRACT ID. 092253

KENTON COUNTY

FED/STATE PROJECT NUMBER FD05 059 0371 003-005

DESCRIPTION COLLINS-AMSTERDAM ROAD (KY 371)

WORK TYPE ASPHALT RESURFACING

PRIMARY COMPLETION DATE 11/15/2009

### LETTING DATE: July 24, 2009

Sealed Bids will be received in the Division of Construction Procurement and/or the Auditorium located on the 1<sup>st</sup> floor of the Transportation Cabinet Office Building until 10:00 AM EASTERN DAYLIGHT TIME July 24, 2009. Bids will be publicly opened and read at 10:00 AM EASTERN DAYLIGHT TIME.

(Check guaranty subr	SAL GUARANTY: Not less mitted: Cashier's Check SUBMITTED WILL BE REcluded Cashier	Certified Check	Bid Bond	
BID 🗌	PROPOSAL ISSUED TO:			
SPECIMEN	Address	City	State	Zip

### TABLE OF CONTENTS

### PART I SCOPE OF WORK

- PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES
- CONTRACT NOTES
- SURFACING AREAS
- ASPHALT MIXTURE
- INCIDENTAL SURFACING
- OPTION A
- MANHOLE ADJUSTMENTS
- ASPHALT MIXTURE FOR PAVEMENT WEDGE
- EDGE KEY
- ASPHALT MILLING AND TEXTURING
- TYPICAL SECTION DIMENSIONS
- SIDEWALK RAMPS & DETECTABLE WARNINGS
- TRAFFIC CONTROL PLAN
- TRAFFIC SIGNAL LOOP DETECTORS
- TRAFFIC SIGNAL LOOP REPLACEMENT
- SKETCH MAP(S)
- SUMMARY SHEET(S)
- TYPICAL SECTION(S)

### PART II SPECIFICATIONS AND STANDARD DRAWINGS

- SPECIFICATIONS REFERENCE
- SUPPLEMENTAL SPECIFICATIONS
- [SN-1I] PORTABLE CHANGEABLE SIGNS
- STANDARD DRAWINGS THAT APPLY
- SIDEWALK RAMPS
- DETECTABLE WARNINGS

### PART III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

- LABOR AND WAGE REQUIREMENTS
- EXECUTIVE BRANCH CODE OF ETHICS
- KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978
- PROJECT WAGE RATES

### PART IV INSURANCE

### PART V BID ITEMS

### PART I SCOPE OF WORK

Contract ID: 092253 Page 4 of 76

CONTRACT ID - 092253

ADMINISTRATIVE DISTRICT - 06

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - KENTON PCN - MP05903710901

FD05 059 0371 003-005

COLLINS-AMSTERDAM ROAD (KY 371) FROM BUTTERMILK PIKE (MP 3.915) EXTENDING NORTHERLY TO RODGERS ROAD (MP 4.817), A DISTANCE OF 0.90 MILES. ASPHALT RESURFACING.

GEOGRAPHIC COORDINATES LATITUDE 39^03'37" LONGITUDE 84^35'27"

AVERAGE DAILY TRAFFIC - 10380 AVERAGE MAINLINE WIDTH - 30.0 FEET

COMPLETION DATE(S):

COMPLETION DATE - November 15, 2009

APPLIES TO ENTIRE CONTRACT

### **CONTRACT NOTES**

### PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

### **BID SUBMITTAL**

Bidder must use the Department's Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. (www.transportation.ky.gov/contract)

The Bidder must download the bid file located on the web site to prepare a bid packet for submission to the Department. The bidder must include the completed bid packet printed from the Program along with the disk created by said program.

### JOINT VENTURE BIDDING

Joint Venture bidding is permissible. However, both companies MUST purchase a bidding proposal. Either proposal may be submitted but must contain the company names and signatures of both parties where required. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

### UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provision of the act.

01/01/2009

### Contract ID: 092253 Page 6 of 76

### **SURFACING AREAS**

Mainline surfacing width is estimated to vary 22-33 feet.

Total mainline area to be surfaced is estimated to be 14,101 square yards.

Shoulder width is estimated to vary 0.5-3 feet on each side.

Total shoulder area to be surfaced is estimated to be 2,151 square yards.

### ASPHALT MIXTURE

The rate of application for all asphalt mixtures shall be estimated at 110 lbs/sy per inch of depth, unless otherwise noted.

### INCIDENTAL SURFACING

The quantities established in the proposal include estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, and road and street approaches. These items are to be paved to the limits as shown on Standard Drawing RPM 110 or to the limits as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, the paving of the crossroads shall be to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. These areas are to be surfaced or resurfaced as directed by the Engineer and no direct payment will be allowed for placing and compacting.

### **OPTION A**

The Contractor is advised that the compaction of asphalt mixtures furnished for driving lanes and ramps, at 25mm (1 inch) or greater, on this project will be accepted according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specification. Joint cores as described in subsection 402.03.02 are required for surface mixtures only. The compaction of all other asphalt mixtures will be accepted by OPTION B.

Contract ID: 092253 Page 7 of 76

### SPECIAL NOTE FOR MANHOLE ADJUSTMENTS

Manhole adjustments are the responsibility of the City of <u>Villa Hills</u>. Notify the Engineer a minimum of 30 calendar days prior to beginning any work on the project. Unless directed otherwise by the Engineer, do not begin resurfacing until the manhole adjustments are completed by the City. The Engineer will coordinate the work between the Contractor and City.

1-3181 manholeadjustbycity 01/01/2009

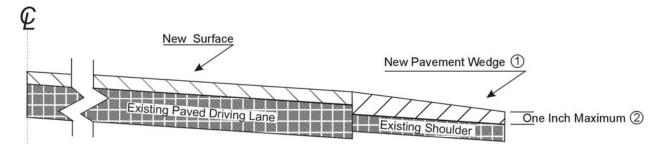
### SPECIAL NOTE FOR PAVEMENT WEDGE AND SHOULDER

- **1.0 MATERIALS.** Provide an Asphalt Mixture for Pavement Wedge conforming to Section 407 of the Standard Specifications or an Asphalt Surface Mixture conforming to Section 403 of the Standard Specifications, as applicable to the project, for the pavement wedge.
- **2.0 CONSTRUCTION.** Place the Asphalt Mixture for Pavement Wedge or Asphalt Surface Mixture as a separate operation from the driving lane. Prime the existing shoulder with tack material as the Engineer directs before placing the wedge. Construct according to Section 407.03 and 403.03 of the Standard Specifications, as applicable.

When the Engineer deems it appropriate to pave both the driving lane and the adjoining wedge monolithically, equip the paver with a modified screed. Provide a screed that extends the full width of the wedge being placed and is tapered to produce a wedge.

The wedge may vary in thickness at the edge of the driving lanes. Limit the outside edge thickness of the new paving limits on the wedge to one inch where existing site conditions permit. If an Asphalt Surface Mixture is furnished for the pavement wedge, texture according to Section 403.03.08.

The following sketch is primarily for the computation of quantities; however, the wedge will result in a similar cross-section where sufficient width exists. Do not construct a shoulder for placing the wedge unless specified elsewhere in the Contract.

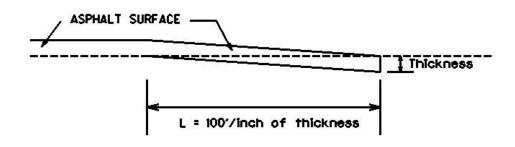


- ① Slope varies, but is down from the driving lanes except on outside of some curves where superelevation controls.
- 2 Where existing site conditions permit.
- **3.0 MEASUREMENT.** The Department will measure Asphalt Mixture for Pavement Wedge or Asphalt Surface Mixture placed as the pavement wedge according to Section 407.
- **4.0 PAYMENT.** The Department will make payment for the completed and accepted quantities of Asphalt Surface Mixtures on pavement wedges according to Section 402 of the Standard Specifications. The Department will make payment for the completed and accepted quantities of Asphalt Mixture for Pavement Wedge according to Section 407 of the Standard Specifications.

### SPECIAL NOTE FOR EDGE KEY

Construct Edge Keys at the beginning of project, end of project, at railroad crossings, and at ramps, as applicable. Cut out the existing asphalt surface to the required depth and width shown on the drawing. Heel new surface into the existing surface. The Department will pay for this work at the contract unit price per ton for "Asphalt Pavement Milling and Texturing", which shall be full compensation for all labor, materials, equipment, and incidentals for removal and disposal of the existing asphalt surface required to construct the edge key.

### EDGE KEY



Thickness = 1.25 Inches

L = 125 LF

L= Length of Edge Key

1-3315 edgekeypaidbyton 01/01/2009

### Contract ID: 092253 Page 10 of 76

### SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING

Begin paving operations within <u>48 hours</u> of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, liquidated damages will be assessed at the rate prescribed by Section 108.09 of the current Standard Specifications until such time as paving operations are begun.

Contrary to Section 408 of the current Standard Specifications, the material obtained from the milling operations shall become the property of the Department. Deliver this material to the nearest State Maintenance facility in the County where the project is located unless otherwise stated in the contract. The Contractor, at his option, may elect to keep this material at an agreed cost of \$10.00 per ton. The cost to the Contractor for this material will be deducted from money due on the Contract.

### **Notice to Contractor**

Transfer of millings to the state maintenance facility is considered a part of the construction project, therefore truck operators are subject to receiving prevailing wages.

 $1\text{-}3525 \ milling 48 hr contractor option rev 21109. doc } 2/11/2009$ 

Contract ID: 092253 Page 11 of 76

### SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

The dimensions shown on the typical sections for pavement and shoulder widths and thickness' are nominal or typical dimensions. The actual dimensions to be constructed may be varied to fit existing conditions as directed or approved by the Engineer. It is not intended that existing pavement or shoulders be widened unless specified elsewhere in the Proposal.

1-3725 typical section 01/01/2009

### SPECIAL NOTE FOR SIDEWALK RAMPS & DETECTABLE WARNINGS

### **GENERAL**

Unless otherwise stated in the contract, or as directed by or with prior approval from the Engineer, construct Sidewalk Ramps and Detectable Warnings in accordance with Section 505 of the 2008 Standard Specifications; Supplemental Specifications, current edition; Standard Drawings RPM-160 and RPM-172, current editions; and Sepia Drawings 012, 013, 014, and 015, current editions. Saw cut existing sidewalks, curb and gutter, and pavement, if present, as directed by the Engineer. The sidewalk thickness specified in the contract is the nominal minimum required thickness; transition the thickness as directed by the Engineer if the existing sidewalk thickness is found to be greater or less than the thickness specified.

Except as required by the work, do not disturb drainage pipe, catch basins, and other roadway features, appurtenances and installations. Restore any roadway features, appurtenances and installations damaged by the work in like kind materials and design at no additional cost to the Department. Dispose of all waste off the right of way at sites obtained by the Contractor at no additional cost to the Department (see Special Note for Waste and Borrow).

### MEASUREMENT & PAYMENT

**SIDEWALK RAMPS** – The Department will measure Sidewalk Ramps as Sidewalk - 4 Inch Concrete in accordance with Section 505.04. Payment at the Contract unit price per square yard shall be full compensation for all labor, materials, equipment, and incidentals required for saw cutting, removal and disposal of existing sidewalk, curb and gutter, and pavement; undercut excavation, backfill, and embankment; construction of the sidewalk ramps, reconstruction of the adjacent curb and/or sidewalk as necessary to install the sidewalk ramps; and restoration of disturbed features in accordance with these notes or as directed by the Engineer.

**DETECTABLE WARNINGS EXISTING RAMPS** – The Department will measure Detectable Warnings in accordance with the Supplemental Specifications and Sepia Drawing 015, current editions. Payment at the Contract unit price per square foot shall be full compensation for all labor, materials, equipment, and incidentals required for saw cutting, removal and disposal of existing side walk, curb and gutter; under cut excavation and backfill if required; construction of the detectable warnings in the existing sidewalk ramps; reconstruction of the adjacent sidewalk, curb and/or gutter as necessary to install the detectable warnings; and restoration of disturbed features in accordance with these notes or as directed by the Engineer

**DETECTABLE WARNINGS NEW RAMPS** – The Department will measure and pay for Detectable Warnings in accordance with the Supplemental Specifications and Sepia Drawing 015, current editions.

Revised 03/26/2009

### Contract ID: 092253 Page 13 of 76

### TRAFFIC CONTROL PLAN

### TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the current Standard Specifications and the Standard Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work.

### PROJECT PHASING & CONSTRUCTION PROCEDURES

At the discretion of the Engineer, days and hours may be specified when lane closures will not be allowed.

At locations with three or more lanes, maintain one lane of traffic in each direction at all times during construction. At locations with two lanes, maintain alternating one way traffic during construction. The clear lane width shall be  $\underline{11}$  Feet. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, the Contractor shall make provisions for the passage of the bus as quickly as possible.

### LANE CLOSURES

Do not leave lane closures in place during non-working hours.

### **SIGNS**

Contrary to section 112.04.02, only long term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

### **BARRICADES**

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain and Control Traffic according to Section 112.04.01. Barricades used to protect pavement removal areas will be bid as each according to Section 112.04.04.

### TRAFFIC LOOP INSTALLATION

All items required for lane closures related to this item of work shall be considered incidental to bid item "Maintain and Control Traffic". Install Traffic signal loops after area has been milled and prior to the asphalt paving. The Contractor shall coordinate the placement of the traffic loops with the Traffic Engineer.

### THERMOPLASTIC INTERSECTION MARKING

All items required for lane closures related to this item of work shall be considered incidental to bid item "Maintain and Control Traffic". The Contractor shall be required to locate, document, and replace the markings that are existing in the field prior to the completion of project or as directed by Engineer.

### CHANGEABLE MESSAGE SIGNS

Provide changeable message signs in advance of and within the project at locations to be determined by the Engineer. If work is in progress concurrently in both directions or if more than one lane closure is in place in the same direction of travel, provide additional changeable message signs as directed by the Engineer. Place changeable message signs one mile in advance of the anticipated queue at each lane closure. As the actual queue lengthens and/or shortens relocate or provide additional changeable message signs so that traffic has warning of slowed or stopped traffic at least one mile but not more than two miles before reaching the end of the actual queue. The locations designated may vary as the work progresses. The messages required to be provided shall be designated by the Engineer. In the event of damage or mechanical/electrical failure, the Contractor shall repair or replace the Changeable Message Sign within 24 hours. The Department will measure for payment the maximum number of changeable message signs in concurrent use at the same time on a single day on all sections of the contract. Individual changeable message signs will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged changeable message signs directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment.

### **ARROW PANEL**

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. Individual arrow panels will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged arrow panels directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment. Arrow panels will remain the property of the Contractor after construction is complete

### Contract ID: 092253 Page 15 of 76

### PAVEMENT EDGE DROP-OFFS

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1½". Warning signs (MUTCD W8-9 or W8-9A, or W8-11) shall be placed in advance of and at 1500 feet intervals throughout the drop-off area. Dual posting on both sides of the traveled way shall be required. All transverse transitions between newly surfaced pavement and the existing pavement areas that traffic may cross shall be wedged with asphalt mixture for leveling and wedging. Remove wedges prior to placement of the final surface course.

Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. Cones may be used in place of plastic drums, panels, and barricades during daylight working hours. Wedge with asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

1-3820 tcp2lanebasicroadopen.doc 01/01/2009

### Contract ID: 092253 Page 16 of 76

### POLICY FOR THE USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

The following policy is based upon current Changeable Message Signs (CMS) standards and practice from many sources, including the Federal Highway Administration (FHWA), other state Departments of Transportation, and Traffic Safety Associations. It is understood that each CMS installation or use requires individual consideration due to the specific location or purpose. However, there will be elements that are constant in nearly all applications. Accordingly these recommended guidelines bring a level of uniformity, while still being open to regional experience and engineering judgement.

### **Application**

The primary purpose of CMS is to advise the driver of unexpected traffic and routing situations. Examples of applications where CMS can be effective include:

- ♦ Closures (road, lane, bridge, ramp, shoulder, interstate)
- ♦ Changes in alignment or surface conditions
- ♦ Significant delays, congestion
- ♦ Construction / maintenance activities (delays, future activities)
- ♦ Detours / alternate routes
- Special events with traffic and safety implications
- ♦ Crash / incidents
- ♦ Vehicle restrictions (width, height, weight, flammable)
- ♦ Advance notice of new traffic control device
- Real-time traffic conditions (must be kept up-to-date)
- Weather/driving conditions, environmental conditions, Roadway Weather Information Systems
- \*Public Service Announcements that improve highway safety
- ♦ Emergency situations
- ♦ Referral to Highway Advisory Radio (if available)
- ♦ Messages as approved by the State Highway Engineer's Office
- \* Use the CMS for special campaigns that will have a specified beginning and ending date. The CMS should not be used for more than three weeks with any special campaign.

### CMS should not be used for:

- Replacement of static signs (e.g. road work ahead), regulatory signs (e.g. speed limits), pavement markings, standard traffic control devices, conventional warning or guide signs
- ♦ Replacement of lighted arrow board
- ♦ Advertising\* (\*Don't advertise the event unless clarifying "action" to be taken by driver e.g. Speedway traffic next exit)
- ♦ Generic messages
- ♦ Test messages (portable signs only)
- Describe recurrent congestion (e.g. rush hour)
- ♦ Public service announcements (not traffic related)

Contract ID: 092253 Page 17 of 76

Changeable Message Sign Policy Page 2 of 6

### **Messages**

Basic principles that are important to providing proper messages and insuring the proper operation of a CMS are:

- ♦ Visible for at least ½ mile under ideal daytime and nighttime conditions
- ◆ Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- ◆ No more than two message panels should be used (Three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- ♦ Do not use the sign for two unrelated messages
- ♦ Should not scroll text horizontally or vertically
- ♦ Should not contain both the words *left* and *right*
- Use standardized abbreviations and messages
- ♦ Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- ♦ Avoid using local names or landmarks
- Avoid use of speed limits
- Use words (not numbers) for dates

### **Placement**

Placement of the CMS is important to insure that the sign is visible to the driver and provides ample time to take any necessary action. Some of the following principles may only be applicable to controlled access roadways. The basic principles of placement for a CMS are:

- When 2 signs are needed, place on same side of roadway and at least 1,000 feet apart
- ♦ Place behind semi-rigid/rigid protection (guardrail, barrier) or outside of the clear zone
- Place 1,000 feet in advance of work zone; at least one mile ahead of decision point
- ♦ Normally place on right side of roadway, but should be place closest to affected lane so either side is acceptable
- Signs should not be dual mounted (one on each side of roadway facing same direction)
- ♦ Point trailer hitch downstream
- ◆ Secure to immovable object to prevent thief (if necessary)
- ♦ Do not place in sags or just beyond crests
- Check for reflection of sun to prevent the blinding of motorists
- ♦ Should be turned ~3° outward from perpendicular to the edge of pavement
- Bottom of sign should be 7 feet above the elevation of edge of roadway
- ♦ Should be removed when not in use

Contract ID: 092253 Page 18 of 76

Changeable Message Sign Policy Page 3 of 6

### STANDARD ABBREVIATIONS

The following is a list of standard abbreviations to be used on CMS.

Word	Abbrev.	<b>Example</b>
Access	ACCS	ACCIDENT AHEAD/USE ACCS RD NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/USE ALT RTE
Cardinal Directions	N, E, S, W	N I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/USE 1275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3MI
Construction	CONST	CONST WORK AHEAD/EXPECT DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND I64 CLOSED/DETOUR EXIT 20
Emergency	EMER	EMER VEH AHEAD/PREPARE TO STOP
Entrance, Enter	ENT	TRUCK ENT NEXT RIGHT
Exit	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/DETOUR EXIT 10
Freeway	FRWY, FWY	GN SNYDR FWY CLOSED/DETOUR EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ALL TRAF EXIT 25
Highway	HWY	ACCIDENT ON AA HWY/EXPECT DELAYS
Hour	HR	ACCIDENT ON AA HWY/2 HR DELAY
Information	INFO	TRAF INFO TUNE TO 1240AM
Interstate	I	E-BND I64 CLOSED/DETOUR EXIT 20
Lane	LN	LN CLOSED /MERGE LEFT
Left	LFT	LANE CLOSED /MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/SLOW
Major	MAJ	MAJ DELAYS 175/USE ALT RTE
Mile	MI	ACCIDENT 3 MI AHEAD/USE ALT RTE
Minor	MNR	ACCIDENT 3 MI MNR DELAY
Minutes(s)	MIN	ACCIDENT 3 MI /30 MIN DELAY
Northbound	N-BND	N-BND I75 CLOSED/DETOUR EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/USE 1275 NEXT RIGHT
Parking	PKING	EVENT PKING NEXT RGT
Parkway	PKWY	CUM PKWAY TRAF/DETOUR EXIT 60
Prepare	PREP	ACCIDENT 3 MI/PREP TO STOP
Right	RGT	EVENT PKING NEXT RGT
Road	RD	HAZMAT IN RD/ALL TRAF EXIT 25
Roadwork	RDWK	RDWK NEXT 4 MI/POSSIBLE DELAYS

Contract ID: 092253 Page 19 of 76

Changeable Message Sign Policy Page 4 of 6

RTE	MAJ DELAYS 175/USE ALT RTE
SHLDR	SHLDR CLOSED NEXT 5 MI
SLIP	SLIP COND POSSIBLE/SLOW SPD
S-BND	S-BND I75 CLOSED/DETOUR EXIT 50
SPD	SLIP COND POSSIBLE/SLOW SPD
ST	MAIN ST CLOSED/USE ALT RTE
TRAF	CUM PKWAY TRAF/DETOUR EXIT 60
VEH	OVRSZ COMM VEH/USE I275 NEXT RIGHT
W-BND	W-BND I64 CLOSED/DETOUR EXIT 50
WRK	CONST WORK 2 MI/POSSIBLE DELAYS
	SHLDR SLIP S-BND SPD ST TRAF VEH W-BND

Certain abbreviations are prone to inviting confusion because another word is abbreviated or could be abbreviated in the same way. DO NOT USE THESE ABBREVIATIONS.

Abbrev.	Intended Word	<b>Word Erroneously Given</b>
ACC	Accident	Access (Road)
CLRS	Clears	Colors
DLY	Delay	Daily
FDR	Feeder	Federal
L	Left	Lane (Merge)
LOC	Local	Location
LT	Light (Traffic)	Left
PARK	Parking	Park
POLL	Pollution (Index)	Poll
RED	Reduce	Red
STAD	Stadium	Standard
TEMP	Temporary	Temperature
WRNG	Warning	Wrong

### TYPICAL MESSAGES

The following is a list of typical messages used on CMS. The list consists of the **reason or problem** that you want the driver to be aware of and the **action** that you want the driver to take.

### Reason / Problem

ACCIDENT
ACCIDENT/xx MILES
xx ROAD CLOSED
xx EXIT CLOSED
BRIDGE CLOSED
BRIDGE/(SLIPPERY, ICE, etc.)
CENTER/LANE/CLOSED

Changeable Message Sign Policy

Page 5 of 6

DELAY(S), MAJOR/DELAYS

**DEBRIS AHEAD** 

**DENSE FOG** 

DISABLED/VEHICLE

EMER/VEHICLES/ONLY

**EVENT PARKING** 

EXIT xx/CLOSED

FLAGGER/xx MILES

FOG/xx MILES

FREEWAY CLOSED

FRESH/OIL

HAZMAT/SPILL

**ICE** 

**INCIDENT AHEAD** 

LANES/(NARROW, SHIFT, MERGE, etc.)

LEFT LANE CLOSED

LEFT LANE NARROWS

LEFT/2 LANES/CLOSED

LEFT/SHOULDER/CLOSED

LOOSE/GRAVEL

MEDIAN/WORK/xx MILES

MOVING/WORK/ZONE, WORKERS/IN/ROADWAY

**NEXT EXIT CLOSED** 

NO/OVERSIZE/LOADS

NO/PASSING

NO/SHOULDER

ONE/LANE/BRIDGE

PEOPLE/CROSSING

RAMP CLOSED

RAMP/(SLIPPERY, ICE, etc.)

RIGHT/LANE/CLOSED

RIGHT/2 LANES/CLOSED

RIGHT/LANE/NARROWS

RIGHT/SHOULDER/CLOSED

ROAD CLOSED

ROAD/CLOSED/xx MILES

ROAD/(SLIPPERY, ICE, etc.)

ROAD/WORK

ROAD/WORK (or CONSTRUCTION)/(TONIGHT, TODAY TOMORROW, DATE, etc.)

ROAD/WORK/xx MILES

SHOULDER/(SLIPPERY, ICE, SOFT, BLOCKED, etc.)

NEW SIGNAL/xx MILES

SINGLE LANE

SLOW/1 (or 2) -WAY/TRAFFIC

SOFT/SHOULDER

STALLED VEHICLES AHEAD

Changeable Message Sign Policy Page 6 of 6

TRAFFIC/BACKUP
TRAFFIC/SLOWS
TRUCK/CROSSING
TRUCKS/ENTERING
TOW TRUCK AHEAD
UNEVEN/LANES
WATER/ON/ROAD
WET PAINT
WORK/ZONE/xx MILES
WORKERS AHEAD

### **Action**

ALL/TRAFFIC/ EXIT RT

AVOID/DELAYS/USE xx

CONSIDER/ALT/ROUTE

**DETOUR** 

DETOUR/xx MILES

DO NOT/PASS

EXPECT/DELAYS

FOLLOW/ALT/ROUTE

**KEEP LEFT** 

**KEEP RIGHT** 

MERGE/xx MILES

MERGE/LEFT

MERGE/RIGHT

ONE-WAY/TRAFFIC

PASS/TO/LEFT

PASS TO/RIGHT

PREPARE/TO/STOP

REDUCE/SPEED

**SLOW** 

SLOW/DOWN

STAY IN/LANE

STAY ON/xx

STOP/AHEAD

STOP/xx MILES

TUNE/RADIO/1610 AM

USE/nn/ROAD

USE/CENTER/LANE

USE/DETOUR/ROUTE

USE/LEFT/LANE

USE/NEXT/EXIT

**USE/RIGHT/LANE** 

WATCH/FOR/FLAGGER

Contract ID: 092253 Page 22 of 76

### SPECIAL NOTES FOR TRAFFIC SIGNAL LOOP DETECTORS

The Contractor is advised there are existing traffic signal loop detectors within the construction limits of the subject project. Notify the Engineer in writing, (2) weeks prior to beginning any work on the project.

The Engineer will contact and maintain liaison with the District Traffic Engineer to coordinate any necessary work.

 $\begin{array}{c} 1\text{--}3892 \ traffic signal loops} \\ 01/01/2009 \end{array}$ 

### SPECIAL NOTES FOR TRAFFIC SIGNAL LOOP REPLACEMENT

**I. DESCRIPTION.** Loop replacement shall be performed in accordance with the Department's Standard Specifications (current edition), applicable Standard Drawings, and applicable Special Provisions except as hereafter specified. Article references are to the Standard Specifications.

The Contractor shall furnish all materials, labor, and equipment for the replacement of traffic signal loop(s), and junction boxes (if the contract specifies quantities for this bid item elsewhere), and maintaining and controlling traffic, and all other work specified as part of this contract.

**II. MATERIALS.** All wire and cable shall be plainly marked in accordance with the provisions of the national electrical code.

Conduit shall be rigid steel. All rigid steel conduit shall be galvanized inside and out and shall conform to the Underwriters' Laboratories requirements for rigid metallic conduit.

Loop wire shall be #14 AWG IMSA Spec 51-7.

Loop lead-in cable shall be #14 AWG stranded, paired conductors, electrically shielded and conforming to IMSA 19-2-1984.

**III. CONSTRUCTION**. The electrical contractor shall coordinate with the general contractor and inspector to ensure the loops are installed prior to any milling work being performed.

All wiring shall conform to the provisions of the National Electrical Code unless otherwise shown on the details. Where more than one circuit is installed within the same conduit, permanent circuit identification numbers shall be affixed to the wires. All wires shall be permanently labeled within 6 inches of the input file.

Rigid steel conduit encasement shall be provided for all conductors except for overhead installations, where conductors are run inside poles or cabinets and induction loop conductors sealed within pavements. All conduit installations shall conform to the provisions of the National Electrical Code except where directed otherwise. Bonded slip joints will be permitted for joining rigid conduit to junction boxes. Where a standard coupling cannot be used, an approved threaded union coupling shall be used.

All conduit ends shall be reamed to remove burrs and sharp edges. Damaged portions of the galvanized surfaces and untreated threads resulting from field cuts shall be painted with a rust inhibitive paint. Conduit bends shall have a radius of not less than 12 times the nominal diameter of the conduit, unless otherwise shown on the plans. See Typical Grounding Detail.

Conduit which will not be subjected to regular pressure from traffic shall be laid to a depth of not less than 18 inches. At crossings under roadway surfaces and shoulders, the conduit shall be placed at a depth of not less than 24 inches below grade. The contractor will not be permitted to cut any pavement in carrying out conduit installations. After the conduit has been installed and prior to backfilling, the conduit installation shall be inspected and approved by the Engineer.

Contractor shall install underground utility warning tape above the circuit cables as shown on the detail sheets. The tapes shall conform to the APWA-ULCC national color code with black lettering on a red background. The tape shall continuously read "Caution: Electric Line Buried Below" alternating with a 'No Digging' symbol.

The tape shall be durable and colorfast to withstand years of underground burial and easily direct buried. The tape shall be 6" wide and 7 mils (nominal) thick. The tape shall have a minimum tensile strength of 600 lbs./6" width. It shall be color code impregnated with alkali and acid stable, lead-free, organic pigments for direct burial. It shall be ultraviolet colorfast. The tape shall be nondistorting with no elongation.

When backfilling trenches, the backfill material shall be placed and compacted in lifts of 9 inches or less. Any area disturbed as a result of the contractor's operations shall be restored to the satisfaction of the Engineer.

Loop lead-in wire, exclusive of shielded cable, shall be twisted with three to five turns per foot before placement in saw slot, conduit or junction box. Unshielded loop wiring to field terminal connections in cabinet and unshielded loop wiring in loop amplifier connector harness shall also be twisted three to five turns per foot.

Except for the connection of the loop wires to the loop lead-in wires, loops shall be extended splice-free to the controller. Loop wires shown as extended to poles or junction boxes shall be spliced into loop lead-in cable at the poles or boxes. Loop lead-in cable shall be extended splice-free from pole or junction box to controller. Each loop shall have a separate lead-in cable installed. Multiple loops on the same lead-in cable will not be accepted. Splices shall be placed to minimize possibility of water intrusion. The electrical contractor shall coordinate the installation of traffic loops with the paving contractor and the Engineer prior to milling.

Junction boxes shall conform to ANSI/SCTE 77 "Specifications for Underground Enclosure Integrity" for Tier 15. Covers shall have a minimum coefficient of friction of 0.05 in accordance with ASTM C1028, shall be marked "TRAFFIC" and be attached with 3/8 " stainless hex bolts. Junction boxes shall be installed flush with finished grade. See Junction Box Type B detail.

All splices shall be made with butt splices. Butt splices shall be copper and of the correct wire range. Butt splices shall be covered with a 3M Mastic Pad or approved equal and then taped with a 3M brand #33 electrical tape. Mastic pad must cover at least 3 inches past each end of butt splice. Underground splices include splices in junction boxes and

pole bases. Each conductor shall be encased in a separate splice kit. Cost of the splices shall be incidental to the cost of wire or cable. The splicing specification listed here takes precedence over any other splicing specifications listed in the Standard Specifications for Road and Bridge Construction.

Induction loop conductors shall test free of shorts and unauthorized grounds and shall have an insulating resistance of at least 100 megohms when tested with a 500 volt direct current potential in a reasonably dry atmosphere between conductors and ground.

Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize himself with existing conditions so that the work can be expeditiously performed after a Contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.

Information provided in this proposal and the types and quantities of work listed are not to be taken as an accurate or complete evaluation of the material and conditions to be encountered during construction. The bidder must draw his own conclusion as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation if the conditions encountered are not in accordance with the information shown.

It is not anticipated that utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities.

The Contractor will be responsible for all damage to public and/or private property resulting from his work. Upon completion of the work, restore all disturbed highway features in like kind design and materials. Clean the site and dispose of all waste and debris off the right-of-way at sites obtained by the Contractor at no additional cost to the Department. Sow all disturbed earthen areas with Seed Mixture No. 1.

### IV. MEASUREMENT.

**Conduit** shall include furnishing and installing specified conduit in accordance with specifications. This item includes conduit fittings, expansion joints, clamps, and weatherheads.

**Junction box** shall include furnishing and installing specified junction box in accordance with the specifications and shown on the Junction Box Type B detail. This item includes #57 aggregate, backfilling, and the restoration of disturbed areas to the satisfaction of the Engineer.

Trenching and backfilling shall include excavation, backfilling, and the restoration of disturbed areas to the satisfaction of the Engineer. Incidental to this item shall be

furnishing and installing underground utility warning tape as shown on the Depth of Conduit detail.

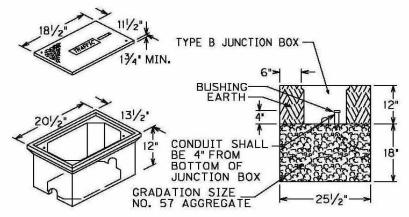
Wire or cable shall include furnishing and installing specified wire or cable within conduit, saw slot, or overhead as required. Incidental to this item shall be furnishing and installing splice boots, cable rings or other hardware required for installing cable. Wire installed in saw slots shall be installed as shown on the Saw Slot detail. The contractor shall install all cable runs splice-free from the controller to each loop wire the cable is feeding. Exceptions to this must be approved by the Engineer. The removal of existing lead-in cable shall be incidental to this item. The removal of existing lead-in cable shall be incidental to this item.

Loop saw slot and fill shall include sawing, cleaning saw slot as well as furnishing and installing loop sealant, backer rod and non-shrink grout as shown on the details. The contractor shall saw according to the dimensions shown on the detail sheets and not cut out any sections of pavement by over-sawing any slot. The <sup>3</sup>/<sub>4</sub>" conduit referenced in the Loop Wire Transition details is incidental to this project and not a separate pay item.

**V. PAYMENT**. The Department will make payment for completed and accepted quantities under the following:

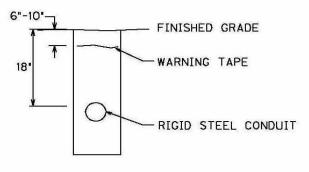
Code	Pay Item	Pay Unit
4793	Conduit 1 1/4"	Linear Foot
4795	Conduit 2"	Linear Foot
4811	Junction Box Type B	Each
4820	Trenching and Backfilling	Linear Foot
4830	Loop Wire	Linear Foot
4850	Cable-No. 14/1 Pair	Linear Foot
4895	Loop Saw Slot and Fill	Linear Foot

01/01/2009

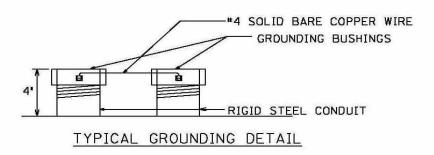


JUNCTION BOXES SHALL CONFORM TO ANSI/SCTE 77 "SPECIFICATIONS FOR UNDERGROUND ENCLOSURE INTEGRITY' FOR TIER 15. COVERS SHALL HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.05 IN ACCORDANCE WITH ASTM CIO2B, SHALL BE MARKED 'TRAFFIC" AND BE ATTACHED WITH % STAINLESS HEX BOLTS. JUNCTION BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.

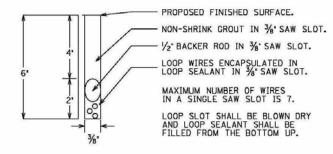
### JUNCTION BOX TYPE B



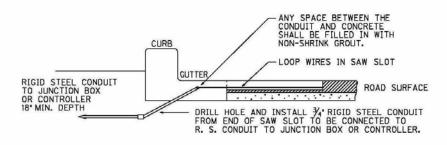
DEPTH OF CONDUIT



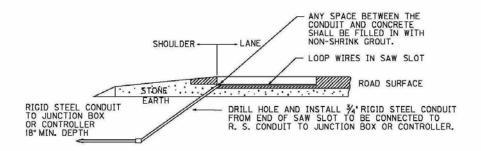
LOOP WIRES SHALL BE ENCAPSULATED WITH LOOP SEALANT PER MANUFACTURER'S INSTRUCTIONS. ALL LOOP SEALANT SHALL BE COVERED WITH A CONTINUOUS LAYER OF BACKER ROD. BACKER ROD SHALL BE INSTALLED SUCH THAT NO VOIDS ARE PRESENT BETWEEN LOOP SEALANT AND BACKER ROD. FILL REMAINING SAW SLOT WITH NON-SHRINK GROUT PER MANUFACTURER'S INSTRUCTIONS.



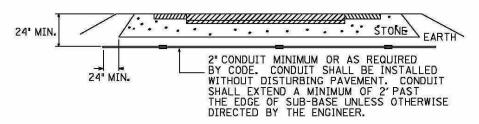
### SAW SLOT DETAIL



### LOOP WIRE TRANSITION - CONCRETE CURB

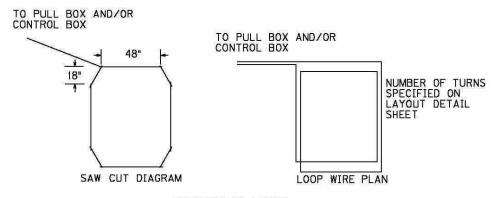


LOOP WIRE TRANSITION - FLAT SHOULDER



### CONDUIT UNDER EXISTING PAVEMENT DETAIL

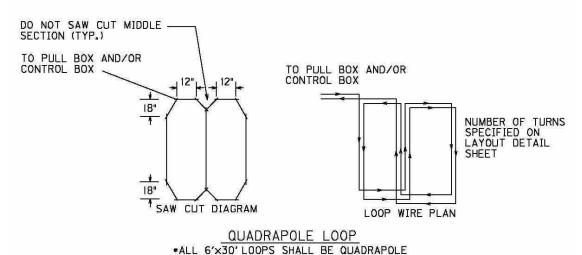
LOOP LEAD-IN WIRES SHALL BE TWISTED WITH THREE TO FIVE TURNS PER FOOT UNTIL TERMINATED AT FIELD CONNECTIONS IN THE CABINET OR CONNECTED TO SHIELDED CABLE.



STANDARD LOOP

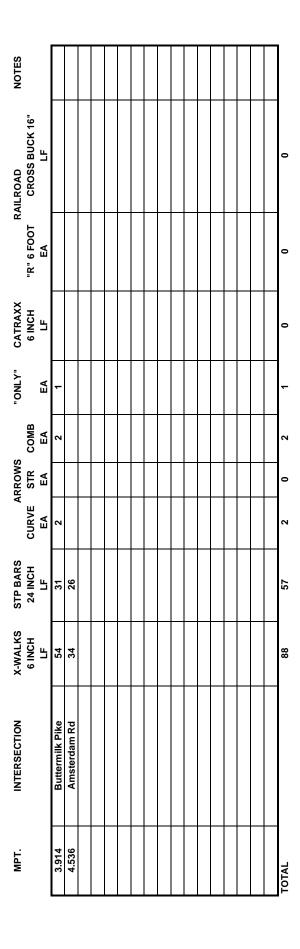
\*ALL 6'x6' LOOPS SHALL BE STANDARD

LOOP LEAD-IN WIRES SHALL BE TWISTED WITH THREE TO FIVE TURNS PER FOOT UNTIL TERMINATED AT FIELD CONNECTIONS IN THE CABINET OR CONNECTED TO SHIELDED CABLE.



Page 7 of 7

# Kenton County THERMOPLASTIC INTERSECTION PAVEMENT MARKINGS SUMMARY FD05 059 0371 003-005



u	מ
č	•
>	
٠.	4
Ŧ	
a	ō
Ċ	5
7	۱
٠	1
_	
-	•
}	1
Š	2
C	2
	Ì
_	
C	١
::	
Ŧ	
ā	0
Š	_
Н	
•	

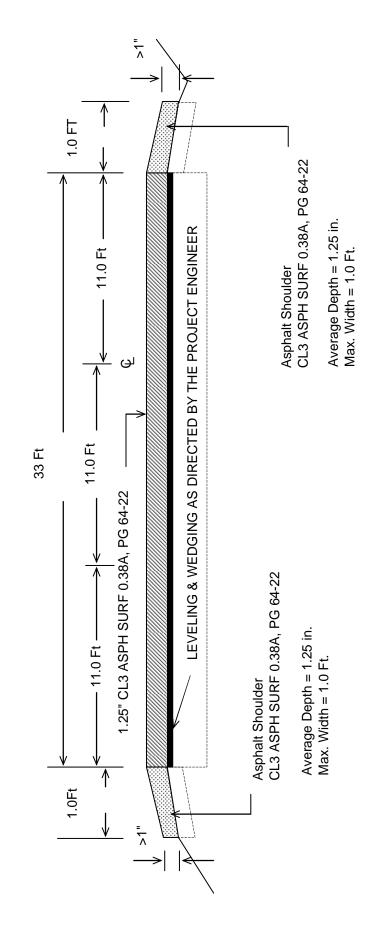
Wire	760			760
GES Saw Cut Milepoint Loops Loops and Fill	504			204
GES Loops				
Loops	2			6
Milepoint	3.915 2			
Signalized Intersections	Buttermilk @ Collins			Totale
Milepoints Length	3.915 4.817	0.902		
Route No. Road Name	KY 371 COLLINS ROAD			
County Project Number	KENTON KY 371 FD05 059 0371 003-005 COLLINS ROAD			

### Sidewalk Ramp Locations

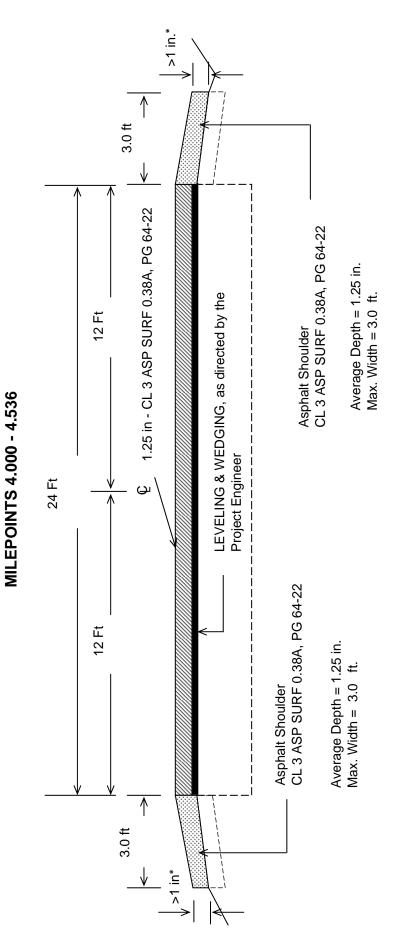
County Route No. Project Number Road Nam	Route No. Road Name	Milepoints Length	Intersection	Ramp Location	*Ramp Type	4" Concrete SQ YD	4" Concrete Detectable Warnings SQ YD SQ FT
KENTON	KY 371	3.915	BUTTERMILK PIKE	NW Corner	3	8	12
FD05 059 0371 003-005	COLLINS	4.817		NE Corner	က	7	12
		0.902					
			Sub Totals			15	24
			Total SQ YDS	15			
			Detectable Wallings	1			

<sup>\*</sup> May need to be modified to fit existing conditions

## KENTON COUNTY KY 371 FD05 059 0371 003-005 TYPICAL SECTION (3 LANE SECTION) MILEPOINTS 3.915 - 4.00

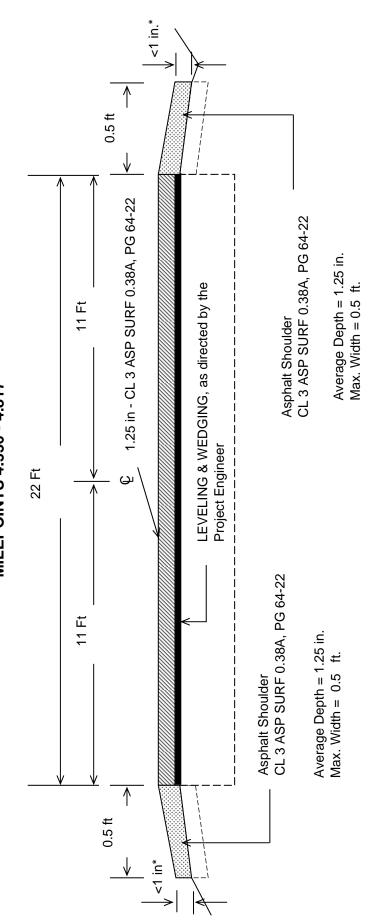


AWedgShldrTypicalSection1



\*Where Existing Site Conditions Permit

FD05 059 0371 003-005 TYPICAL SECTION MILEPOINTS 4.536 - 4.817



\*Where Existing Site Conditions Permit

# PART II SPECIFICATIONS AND STANDARD DRAWINGS

#### **SPECIFICATIONS REFERENCE**

Any reference in the plans or proposal to the *Standard Specifications for Road and Bridge Construction, Edition of 2004*, and *Standard Drawings, Edition of 2000* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2008* and *Standard Drawings, Edition of 2003 with the 2008 Revision.* 

Contract ID: 092253 Page 39 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

GT ID GT GT G T	100.00					
SUBSECTION:	101.02 Abbreviations.					
REVISION:	Insert the following abbreviation and text into the section:					
	VEDSC Ventualsy Erosion Provention and Sediment Control					
SUBSECTION:	KEPSC Kentucky Erosion Prevention and Sediment Control					
REVISION:	101.03 Definitions.					
REVISION:	Replace the definition for Specifications – <i>Special Provisions</i> with the following:					
	Additions and ravisions to the Standard and Supplemental Specifications according conditions recyclism to					
	Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to and individual project.					
	and individual project.					
SUBSECTION:	102.07.01 General.					
REVISION:	Replace the first sentence with the following:					
REVISION.	Replace the first sentence with the following.					
	Submit the Bid Proposal on forms furnished on the Department internet website					
	(http://transportation.ky.gov/contract/), including the Bid Packet and disk created from the Expedite					
	Bidding Program.					
	2 Togania					
SUBSECTION:	102.07.02 Computer Bidding.					
REVISION:	Replace the first paragraph with the following:					
	Subsequent to ordering a Bid Proposal for a specific project, use the Department's Expedite Bidding					
	Program on the internet website of the Department of Highways, Division of Construction Procurement					
	( <a href="http://transportation.ky.gov/contract/">http://transportation.ky.gov/contract/</a> ). Download the bid file from the Department's website to prepare					
	a Bid Proposal for submission to the Department. Include the completed Bid Packet produced by the					
	Expedite Bidding Program and submit it along with the disk created by said program.					
	Replace the second paragraph with the following:					
	In case of a dispute, the printed Bid Proposal and bid item sheets created by the Expedite Bidding					
	Program take precedence over any bid submittal.					
CLIDGE CETON	102 00 IDDECITI AD DID DDODOGAL C					
SUBSECTION:	102.08 IRREGULAR BID PROPOSALS.					
REVISION:	Replace point four of the first paragraph with the following:					
	4) fails to submit a disk created from the Expedite Bidding Program.					
	4) Tails to subliff a disk created from the Expedite Bidding Program.					
	Replace point one of the second paragraph with the following:					
	replace point one of the second paragraph with the following.					
	1) when the Bid Proposal is on a form other than that furnished by the Department or printed from					
	other than the Expedite Bidding Program, or when the form is altered or any part is detached;					
	or					
SUBSECTION:	103.02 AWARD OF CONTRACT.					
<b>REVISION:</b>	Replace the first sentence of the third paragraph with the following:					
	The Department will normally award the Contract within 10 working days after the date of receiving Bid					
	Proposals unless the Department deems it best to hold the Bid Proposals of any or all bidders for a					
	period not to exceed 60 calendar days for final disposition of award.					

Contract ID: 092253 Page 40 of 76

## **Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition**

(Effective with the July 24, 2009 Letting)

## SUBSECTION: REVISION:

105.12 FINAL INSPECTION AND ACCEPTANCE OF WORK.

Insert the following paragraphs after the first paragraph:

Notify the Engineer when all electrical items are complete. A notice of the electrical work completion shall be made in writing to the Contractor. Electrical items will be inspected when the electrical work is complete and are not subject to waiting until the project as a whole has been completed. The Engineer will notify the Division of Traffic Operations within 3 days that all electrical items are complete and ready for a final inspection. A final inspection will be completed within 90 days after the Engineer notifies the Division of Traffic Operations of the electrical work completion.

Energize all electrical items prior to notifying the Engineer that all electrical items are complete. Electrical items must remain operational until the Division of Traffic Operations has inspected and accepted the electrical portion of the project. Payment for the electrical service is the responsibility of the Contractor from the time the electrical items are energized until the Division of Traffic Operations has accepted the work.

Complete all corrective work within 90 calendar days of receiving the original electrical inspection report. Notify the Engineer when all corrective work is complete. The Engineer will notify the Division of Traffic Operations that the corrective work has been completed and the project is ready for a follow-up inspection. Upon re-inspection, if additional corrective work is required, complete within the same 90 calendar day allowance. The Department will not include time between completion of the corrective work and the follow up electrical inspection(s). The 90 calendar day allowance is cumulative regardless of the number of follow-up electrical inspections required.

The Department will assume responsibility for the electrical service on a project once the Division of Traffic Operations gives final acceptance of the electrical items on the project. The Department will also assume routine maintenance of those items. Any damage done to accepted electrical work items by other Contractors shall be the responsibility of the Prime Contractor. The Department will not be responsible for repairing damage done by other contractors during the construction of the remaining project.

Failure to complete the electrical corrective work within the 90 calendar day allowance will result in penalties assessed to the project. Penalties will be assessed at ½ the rate of liquidated damages established for the contract.

Delete the fifth paragraph from the section.

#### **SUBSECTION:**

105.13 CLAIM RESOLUTION PROCESS.

**REVISION:** 

Delete the last paragraph from the section.

SUBSECTION:

106.10 FIELD WELDER CERTIFICATION REQUIREMENTS.

**REVISION:** 

Insert the following sentence before the first sentence of the first paragraph:

All field welding must be performed by a certified welder unless otherwise noted.

#### SUBSECTION:

PART:

112.03.11 Temporary Pavement Markings.

**REVISION:** 

B) Placement and Removal of Temporary Striping. Replace the 2<sup>nd</sup> sentence of the fist paragraph with the following:

On interstates and parkways, and other roadways approved by the State Highway Engineer, install

#### **SUBSECTION:**

REVISION:

pavement striping that is 6 inches in width. 112.03.12 Project Traffic Coordinator (PTC).

Add the following at the end of the subsection:

After October 1, 2008 the Department will require the PTC to have successfully completed the applicable qualification courses. Personnel that have not successfully completed the applicable courses by that date will not be considered qualified. Prior to October 1, 2008, conform to Subsection 108.06 A) and ensure the designated PTC has sufficient skill and experience to properly perform the task.

Contract ID: 092253 Page 41 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

CLIDGE CTION.	206.02.02 Embosloment
SUBSECTION: REVISION:	206.03.02 Embankment
REVISION:	Replace the last paragraph with the following:
	When rock roadbed is specified, construct the upper 2 feet of the embankment according to Subsection
	204.03.09 A).
SUBSECTION:	213.03.03 Inspection and Maintenance.
REVISION:	Insert the following paragraph after the second paragraph:
KE VISIOIV.	insert the following paragraph after the second paragraph.
	When the Contractor is required to obtain the KPDES permit, it is their responsibility to ensure
	compliance with the inspection and maintenance requirements of the permit. The Engineer will perform
	verification inspections a minimum of once per month and within 7 days of a ½ inch or greater rainfall
	event. The Engineer will document these inspections using Form TC 63-61 A. The Engineer will
	provide copies of the inspection only when improvements to the BMP's are required. Verification
	inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance
	with the KPDES permit. Initiate corrective action within 24 hours of any noted deficiency and complete
	the work within 5 days.
SUBSECTION:	213.03.05 Temporary Control Measures.
PART:	F) Temporary Mulch.
REVISION:	Replace the last sentence with the following:
	Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and anchor it into the soil
	by mechanically crimping it into the soil surface or applying tackifier to provide a protective cover.
	Regardless of the anchoring method used, ensure the protective cover holds until disturbance is required or permanent controls are in installed.
	of permanent controls are in instance.
SUBSECTION:	303.05 PAYMENT.
REVISION:	Replace the second paragraph of the section with the following:
	The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot Pay
	Adjustment Schedule for Specialty Mixtures in Section 402.
SUBSECTION:	401.02.04 Special Requirements for Dryer Drum Plants.
PART:	F) Production Quality Control.
REVISION:	Replace the first sentence with the following:
	Stop mixing operations immediately if, at any time, a failure of the automatic electronic weighing
SUBSECTION:	system of the aggregate feed, asphalt binder feed, or water injection system control occurs.  401.02.04 Special Requirements for Dryer Drum Plants.
REVISION:	Add the following:
REVISION.	Add the following.
	Part G) Water Injection System. Provided each system has prior approval as specified in Subsection
	402.01.01, the Department will allow the use of water injection systems for purposes of foaming the
	asphalt binder and lowering the mixture temperature for production of Warm Mix Asphalt (WMA).
	Ensure the equipment for water injection meets the following requirements:
	1) Injection equipment computer controls are automatically coupled to the plants controls (manual
	operation is not permitted);
	2) Injection equipment has variable controls that introduce water ratios based on production rates
	of mixtures;
	3) Injects water into the flow of asphalt binder prior to contacting the aggregate;
	4) Provides alarms on the water injection system that operate when the flow of water is
	interrupted or deviates from the prescribed water rate.
SUBSECTION:	401.03.01 Preparation of Mixtures.
REVISION:	Replace the last sentence of the second paragraph with the following:
KE VISION.	replace the last sentence of the second paragraph with the following.
	Do not use asphalt binder while it is foaming in a storage tank.

Contract ID: 092253 Page 42 of 76

## **Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition**

(Effective with the July 24, 2009 Letting)

SUBSECTION: REVISION:

401.03.01 Preparation of Mixtures.

Replace the third paragraph and Mixing and Laying Temperature table with the following:

Maintain the temperature of the component materials and asphalt mixture within the ranges listed in the following table:

MIXING AND LAYING TEMPERATURES (°F)					
Material		Minimum	Maximum		
Aggregates		240	330		
Aggregates used with Recycled Asphalt Pavement (RAP)		240	_		
Asphalt Binders	PG 64-22	230	330		
	PG 76-22	285	350		
Asphalt Mixtures at Plant	PG 64-22 HMA	250	330		
(Measured in Truck)	PG 76-22 HMA	310	350		
	PG 64-22 WMA	230	275		
	PG 76-22 WMA	250	300		
Asphalt Mixtures at Project	PG 64-22 HMA	230	330		
(Measured in Truck	PG 76-22 HMA	300	350		
When Discharging)	PG 64-22 WMA	210	275		
_	PG 76-22 WMA	240	300		

SUBSECTION:

REVISION:

402.01 Description.

Replace the paragraph with the following:

Provide the process control and acceptance testing of all classes and types of asphalt mixtures which may be furnished either as hot mix asphalt (HMA) or warm mix asphalt (WMA) produced with water injection systems.

SUBSECTION REVISION:

402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval.

Add the following subsection:

402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval.

The Department will evaluate trial production of WMA by use of a water injection system provided the system is installed according to the manufacturer's requirements and satisfies the requirements of Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specified in Subsection 402.03.02 D). Do not place WMA for evaluation on Department projects. Provided production and placement operations satisfy the applicable quality levels, the Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated.

SUBSECTION: REVISION:

402.05.02 Asphalt Mixtures and Mixtures With RAP.

Replace Subsection Title as below:

402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.

SUBSECTION: REVISION:

402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.

Replace the paragraph with the following:

The Department will pay for the mixture at the Contract unit bid price and apply a Lot Pay Adjustment for each lot placed based on the degree of compliance with the specified tolerances. Using the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for the applicable properties within each sublot and average the sublot pay values to determine the pay value for a given property for each lot. The Department will apply the Lot Pay Adjustment for each lot to a defined unit price of \$50.00 per ton. The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.

Contract ID: 092253 Page 43 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

SUBSECTION: PART: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. C) Conventional and RAP Mixtures Placed on Shoulders. Replace title with the following: HMA, WMA, and RAP Mixtures Placed on Shoulders.				
SUBSECTION: PART: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.  D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.  Replace the title with the following:  HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.				
	THAT, WINT, and RAIT WHATENESS	iacea Mononini	early as Asphale Lavement Wedge.		
SUBSECTION: PART: TABLES: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.  Lot Pay Adjustment Schedule, Compaction Option A, Base and Binder Mixtures  VMA  Replace the VMA table with the following:				
			VMA		
		Pay Value	Deviation Eson Minimum		
		1.00	From Minimum  ≥ min. VMA		
			0.1-0.5 below min.		
	0.90 0.6-1.0 below min.  (1) > 1.0 below min.				
SUBSECTION: PART: TABLES:	Lot Pay Adjustment Schedule, Compaction Option A, Surface Mixtures				
REVISION:	Replace the VMA table with the following	llowing:			
	Ī	V	MA		
	<b> </b>	Pay Value	Deviation		
	  -		From Minimum		
	<u> </u>	1.00	≥ min. VMA		
		0.95	0.1-0.5 below min.		
	-	0.90	0.6-1.0 below min. > 1.0 below min.		
	L		> 1.0 octow mini.		

Contract ID: 092253 Page 44 of 76

## Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

(Effective with the July 24, 2009 Letting)

SUBSECTION: 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.

PART: Lot Pay Adjustment Schedule, Compaction Option B Mixtures

TABLE: VMA

PEVISION: People of the VMA toble with the following:

**REVISION:** Replace the VMA table with the following:

VMA				
Pay Value	Deviation			
	From Minimum			
1.00	≥min. VMA			
0.95	0.1-0.5 below min.			
0.90	0.6-1.0 below min.			
(2)	> 1.0 below min.			

**SUBSECTION:** 403.03.03 Preparation of Mixture.

PART: C) Mix Design Criteria.

NUMBER: 1) Preliminary Mix Design.

**REVISION:** Replace the last two sentences of the paragraph and table with the following:

Complete the volumetric mix design at the appropriate number of gyrations as given in the table below for the number of 20-year ESAL's. The Department will define the relationship between ESAL classes, as given in the bid items for Superpave mixtures, and 20-year ESAL ranges as follows:

Number of Gyra			ations	
Class	ESAL's (millions)	$N_{ m initial}$	$N_{ m design}$	$N_{ m max}$
2	< 3.0	6	50	75
3	3.0  to < 30.0	7	75	115
4	≥ 30.0	8	100	160

**SUBSECTION:** 403.03.09 Leveling and Wedging, and Scratch Course.

**PART:** A) Leveling and Wedging.

**REVISION:** Replace the first sentence of the first paragraph with the following:

Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.

**SUBSECTION:** 403.03.09 Leveling and Wedging, and Scratch Course.

**PART:** B) Scratch Course.

**REVISION:** Replace the second sentence of the first paragraph with the following:

Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.

**SUBSECTION:** 407.01 DESCRIPTION.

**REVISION:** Replace the first sentence of the paragraph with the following:

Construct a pavement wedge composed of a hot-mixed or warm-mixed asphalt mixture.

**SUBSECTION:** 409.01 DESCRIPTION.

**REVISION:** Replace the first sentence of the paragraph with the following:

Use reclaimed asphalt pavement (RAP) from Department projects or other approved sources in hot mix

asphalt (HMA) or warm mix asphalt (WMA) provided mixture requirements are satisfied.

**SUBSECTION:** 410.01 DESCRIPTION.

**REVISION:** Delete the second sentence of the paragraph.

Contract ID: 092253 Page 45 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition (Effective with the July 24, 2009 Letting)

SUBSECTION:	410.03.01 Corrective Work.	1 1/1	1 6 11 '			
REVISION:	Replace the last sentence of th	e paragraph with t	ne rollowing:			
	Provide a final surface compar respect to texture, appearance,			uire corrective work in		
SUBSECTION:	410.03.02 Ride Quality.					
PART:	B) Requirements.					
NUMBER: REVISION:	1) Category A. Replace the last sentence of th	e first paragraph y	vith the following:			
REVISION.			-			
	At the Department's discretion lieu of corrective work.	n, a pay deduction	of \$1200 per 0.1-lane-mile so	ection may be applied in		
SUBSECTION:	410.03.02 Ride Quality.					
PART:	B) Requirements.					
NUMBER: REVISION:	2) Category B. Replace the second and third s	entence of the firs	t paragraph with the followin	g:		
	When the IRI is greater than 9 the pavement to achieve the sp					
	0.1-lane-mile section may be a			pay deduction of \$700 per		
SUBSECTION:	410.05 PAYMENT.					
REVISION:	Add the following sentence to	the end of the firs	t paragraph:			
	The same of the may value adia	otuvonto fon vido o	vality shall not award \$0 for	the music et es e vulcele		
	The sum of the pay value adju	stillents for fide q	danty shan not exceed \$0 for	the project as a whole.		
SUBSECTION: REVISION:	413.05.02 CL3 SMA BASE 1			4		
REVISION:	Insert the following sentence between the first and second sentence of the first paragraph:					
	The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives					
	but will not allow the overall pay value for a lot to exceed 1.00.					
SUBSECTION:	413.05.02 CL3 SMA BASE 1	.00D PG 76-22.				
TABLE: REVISION:	JOINT DENSITY TABLE Replace the joint density table	with the followin	a.			
REVISION.	Replace the joint density table	with the followin	g.			
		LAN	E DENSITY			
		Pay Value	Test Result (%)			
		1.05	95.0-96.5			
		1.00	93.0-94.9			
		0.95	92.0-92.9 or 96.6-97.0			
	0.90 91.0-91.9 or 97.1-97.5					
		(-/	< 91.0 or > 97.5			
SUBSECTION: REVISION:	413.05.03 CL3 SMA SURF 0.					
REVISION:	Insert the following sentence b	between the first a	na secona sentence of the firs	ı paragrapıı.		
	The Department will calculate			ntives and disincentives		
	but will not allow the overall p	oay value for a lot	to exceed 1.00.			
	l					

Contract ID: 092253 Page 46 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

SUBSECTION:	413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22.					
TABLE:	JOINT DENSITY TABLE					
REVISION:	Replace the joint d	ensity table with the	ne following:			
			DENSITY			
		Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)		
		1.05	95.0-96.5	92.0-96.0		
		1.00	93.0-94.9	90.0-91.9		
		0.95	92.0-92.9 or 96.6-97.0	89.0-89.9 or 96.1-96.5		
		0.90	91.0-91.9 or 97.1-97.5	88.0-88.9 or 96.6-97.0		
		0.75		< 88.0 or > 97.0		
		(1)	< 91.0 or > 97.5			
SUBSECTION:	501.05.02 Ride Qu					
REVISION:	Add the following	sentence to the end	d of the first paragraph:			
	The sum of the pay	value adjustment	s for the ride quality shall	not exceed \$0 for the p	roject as a whole.	
SUBSECTION:	505.03.04 Detecta	ble Warnings.				
REVISION:	Replace the first se		llowing:			
	Install detectable warning pavers at all sidewalk ramps and on all commercial entrances according to the Standard Drawings.					
SUBSECTION:	505.04.04 Detectable Warnings.					
REVISION:	Replace the paragr	aph with the follow	wing:			
	The Department will measure the quantity in square feet. All retrofit applications for maintenance					
	projects will require the removal of existing sidewalks to meet the requirements of the standard drawings					
	applicable to the project. The cost associated with the removal of the existing sidewalk will be					
	incidental to the detectable warnings bid item or incidental to the bid item for the construction of the concrete sidewalk unless otherwise noted.					
SUBSECTION:	505.05 PAYMENT.					
REVISION:	Add the following	to the bid item tab	le:			
	Code Pay Item Pay Unit					
	23158ES505	Detectable Warn				
SUBSECTION:	509.01 DESCRIPTION.					
REVISION:	Replace the second paragraph with the following:					
	The Department may allow the use of similar units that conform to the National Cooperative Highway					
			st Level 3 (TL-3) requirer			
	the Standard Drawings. Obtain the Engineers approval prior to use. Ensure the barrier wall shape, length, material, drain slot dimensions and locations typical features are met and the reported maximum					
	deflection is 3 feet or less from the NCHRP 350 TL-3 for Test 3 – 11 (pickup truck impacting at 60 mph					
	at a 25-degree angl	e.)				
SUBSECTION: REVISION:	601.03.02 Concrete					
REVISION:	Add the following	to the first paragra	ιρπ.			
	region, the Departr	nent will provide o	ed during a project and the qualified personnel to with nent will assess the Contra	ness and ensure the prod	lucer follows the	
L						

Contract ID: 092253 Page 47 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

CUDCECTION.	606 00 11 Capras Apprecia
SUBSECTION: REVISION:	606.02.11 Coarse Aggregate.  Replace with the following:
KEVISION:	Replace with the following.
	Conform to Section 805, size No. 8 or 9-M.
SUBSECTION:	609.04.06 Joint Sealing.
REVISION:	Replace Subsection 601.04 with the following:
REVISION.	Replace Bubsection 001.04 with the following.
	Subsection 606.04.08.
SUBSECTION:	609.05 Payment.
REVISION:	Replace the Pay Unit for Joint Sealing with the following:
	See Subsection 606.05.
SUBSECTION:	701.03.06 Initial Backfill.
REVISION:	Replace the first sentence of the last paragraph with the following:
	When the Contract specifies, perform quality control testing to verify compaction according to KM 64-
	512.
SUBSECTION:	701.03.08 Testing of Pipe.
REVISION:	Replace and rename the subsection with the following:
	- v
	<b>701.03.08 Inspection of Pipe.</b> The engineer will visually inspect all pipe. The Department will
	require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe
	structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under
	pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of
	the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining
	pipe structures on the project to provide for the minimum inspection requirement. The pipe will be
	selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be
	inspected is at least 50 percent of the total linear feet of all installed pipe on the project.
	Unless the Engineer directs otherwise, schedule the inspections no sooner than 30 days after
	completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When
	final surfacing conflicts with the 30-day minimum, conduct the inspections prior to placement of the
	final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete
	inspection is possible.  Notify the Engineer immediately if distresses or locations of improper installation are discovered.
	When camera testing shows distresses or improper installation in the installed pipe, the Engineer may
	require additional sections to be tested. Provide the video and report to the Engineer when testing is
	complete in accordance with KM 64-114.
	Pipes that exhibit distress or signs of improper installation may necessitate repair or removal as the
	Engineer directs. These signs include, but are not limited to: deflection, cracking, joint separation,
	sagging or other interior damage. If corrugated metal or thermoplastic pipes exceed the deflection and
	installation thresholds indicated in the table below, provide the Department with an evaluation of each
	location conducted by a Professional Engineer addressing the severity of the deflection, structural
	integrity, environmental conditions, design service life, and an evaluation of the factor of safety using
	Section 12, "Buried Structures and Tunnel Liners," of the AASHTO LRFD Bridge Design
	Specifications. Based on the evaluation, the Department may allow the pipe to remain in place at a
	reduced unit price as shown in the table below. Provide 5 business days for the Department to review the
	evaluation. When the pipe shows deflection of 10 percent or greater, remove and replace the pipe. When
	the camera/video or laser inspection results are called into question, the Department may require direct
	measurements or mandrel testing.
	The Cabinet may elect to conduct Quality Assurance verifications of any pipe inspections.

Contract ID: 092253 Page 48 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

SUBSECTION: REVISION:	701.04.07 Testing. Replace and rename the subsection with the following:				
	701.04.07 Pipeline Video Inspection. The Department will measure the quantity in linear feet along the pipe invert of the structure inspected. When inspection above the specified 50 percent is performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03. However, if additional distresses or non-conformance is found, the Department will not measure the additional inspection for payment.				
SUBSECTION: REVISION:	701.05 PAYMENT.  Add the following pay item to the list of pay items:  Code Pay Item Pipeline Video Inspection  Pay Unit Linear Foot				ot
SUBSECTION: TABLE:	701.05 PAYMENT PIPE DEFLECTION DETERMIN		STING		
REVISION:	Replace this table with the following	ng table and note:			
		PIPE DEFLEC	TION		
	Amount of Deflection (9	%)	Payment		
	0.0 to 5.0			Unit Bid Price	
	5.1 to 9.9		50% of the U	Unit Bid Price (1)	
	10 or greater Remove and Replace				
	(1) Provide Structural Analysis a allowed to remain in place at the		Based on the	structural analysis, pipe	may be
SUBSECTION: TABLE:	701.05 PAYMENT PIPE DEFLECTION DETERMINED BY MANDREL TESTING				
REVISION:	Delete this table.				
SUBSECTION: REVISION:	713.02.01 Paint. Replace with the following:				
SUBSECTION:	Conform to Section 842 and Section 713.03 CONSTRUCTION.	on 846.			
REVISION:	Replace the first sentence of the se	cond paragraph with th	ne following:		
GLIDGE GENON	On interstates and parkways, and other routes approved by the State Highway Engineer, install pavement striping that is 6 inches in width.				
SUBSECTION: REVISION:	713.03.03 Paint Application. Replace the second paragraph with the following table:				
	Material	Paint Application R	ate	Glass Beads Application	n Rate
	4 inch waterborne paint	Min. of 16.5 gallons		Min. of 6 pounds/gallon	
	6 inch waterborne paint	Min. of 24.8 gallons/	mile/mile	Min. of 6 pounds/gallon	
	6 inch durable waterborne paint	Min. of 36 gallons/m	ile	Min. of 6 pounds/gallon	

Contract ID: 092253 Page 49 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition (Effective with the July 24, 2009 Letting)

SUBSECTION:	713.03.04 Marking Removal.				
REVISION:	Replace the last sentence of the paragraph wit the following:				
REVISION.	replace the last selected of the paragraph wit the following.				
	Vacuum all marking material and removal debris concurrently with the marking removal operation.				
SUBSECTION:	713.05 PAYMENT.				
REVISION:	Insert the following codes and pay items below the Pavement Striping – Permanent Paint:				
	<u>Code</u> <u>Pay Item</u> <u>Pay Unit</u>				
	23159EN Durable Waterborne Marking – 6 IN W Linear Foot				
	23160EN Durable Waterborne Marking – 6 IN Y Linear Foot				
SUBSECTION:	714.03 CONSTRUCTION.				
REVISION:	Insert the following paragraph at the end of the third paragraph:				
	Use Type I Tape for markings on bridge decks, JPC pavement and JPC intersections. Thermoplastic				
	should only be used for markings on asphalt pavement				
SUBSECTION:	714.03.07 Marking Removal.				
REVISION:	Replace the third sentence of the paragraph with the following:				
	Vacuum all marking material and removal debris concurrently with the marking removal operation.				
CLIDGECTION	71.COL DESCRIPTION				
SUBSECTION: REVISION:	716.01 DESCRIPTION. Insert the following after the first sentence:				
KEVISION.	insert the following after the first sentence.				
	Energize lighting as soon as it is fully functional and ready for inspection. Ensure that lighting remains				
	operational until the Division of Traffic Operations has provided written acceptance of the electrical				
	work.				
SUBSECTION:	716.02.01 Roadway Lighting Materials.				
REVISION:	Replace the third sentence of the paragraph with the following:				
	Submit for material approval an electronic file of descriptive literature, drawings, and any requested				
	design data.				
SECTION:	717 – THERMOPLASTIC INTERSECTION MARKINGS.				
REVISION:	Replace the section name with the following:				
	NAMES OF COMPANY AND				
	INTERSECTION MARKINGS.				
SUBSECTION:	717.01 DESCRIPTION:				
REVISION:	Replace the paragraph with the following:				
112,101011	replace the paragraph with the following.				
	Furnish and install thermoplastic or Type I tape intersection markings (Stop Bars, Crosswalks, Turn				
	Arrows, etc.) Thermoplastic markings may be installed by either a machine applied, screed extrusion				
	process or by applying preformed thermoplastic intersection marking material.				
CIDCECTION	717 02 MATERIAL CAND FOLUDMENT				
SUBSECTION: REVISION:	717.02 MATERIALS AND EQUIPMENT.				
KE VISION:	Insert the following subsection:				
	717.02.06 Type I Tape. Conform to Section 836.				
	<b>**</b> *				
SUBSECTION:	717.03.03 Application.				
REVISION:	Insert the following part to the subsection:				
	B) Type I Tape Intersection Markings. Apply according to the manufacturer's recommendations. Cut				
	all tape at pavement joints when applied to concrete surfaces.				
	l .				

Contract ID: 092253 Page 50 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

SUBSECTION:	717.03.05 Proving Period.				
PART:	A) Requirements.				
REVISION:	Insert the following to this section:				
		ving period, ensure that the pavement marking materi			
		ssive cracking, bleeding, staining, discoloration, oil co			
		chipping, spalling, poor adhesion to the pavement, los			
		ge, and normal wear. Type I Tape is manufactured of			
		o meet certain retroreflective requirements. As long a			
		e and shows no signs of failure due to the other items coreflectivity readings will not be required. In the abs			
		based on a nighttime visual observation.	ence of readings,		
SUBSECTION:	717.03.06 Marking Removal.	based on a nightime visual observation.			
REVISION:	Replace the third sentence of the	e paragraph with the following:			
REVISION.	Replace the time sentence of the	o paragraph with the following.			
	Vacuum all marking material an	d removal debris concurrently with the marking remo	val operation.		
SUBSECTION:	717.05 PAYMENT.	Ţ	1		
REVISION:	Insert the following bid item coo	les:			
	Code	Pay Unit	Pay Item		
	06563	Pave Marking – R/R X Bucks 16 IN	Linear Foot		
	20782NS714	Pave Marking Thermo – Bike	Each		
	23251ES717, 23264ES717	Pave Mark TY I Tape X-Walk, Size	Linear Foot		
	23252ES717, 23265ES717	Pave Mark TY I Tape Stop Bar, Size	Linear Foot		
	23253ES717	Pave Mark TY I Tape Cross Hatch	Square Foot		
	23254ES717	Pave Mark TY I Tape Dotted Lane Extension	Linear Foot		
	23255ES717	Pave Mark TY I Tape Arrow, Type	Each		
	23268ES717-23270ES717				
	23256ES717	Pave Mark TY I Tape- ONLY	Each		
	23257ES717	Pave Mark TY I Tape- SCHOOL	Each		
	23266ES717	Pave Mark TY 1 Tape R/R X Bucks-16 IN	Linear Foot		
CIDCECTION	23267ES717	Pave Mark TY 1 Tape-Bike	Each		
SUBSECTION: REVISION:	805.01 GENERAL.  Replace the second paragraph w	ith the following:			
KE VISION:	Replace the second paragraph w	in the following.			
	The Department's List of Appro	wed Materials includes the Aggregate Source List, the	e list of Class A and		
		gate Sources, and the Concrete Restriction List.			
SUBSECTION:	805.04 CONCRETE.	,			
REVISION:	Replace the "AASHTO T 160" i	reference in first sentence of the third paragraph with	"KM 64-629"		
SUBSECTION:	805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.				
TABLE:	AGGREGATE SIZE USE				
PART:	Cement Concrete Structures and		,,		
REVISION:	Replace "9-M for Waterproofing Overlays" with "8 or 9-M for Waterproofing Overlays"				

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

(Effective with the July 24, 2009 Letting)

805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE. Replace the "SIZES OF COARSE AGGREGATES" table in with the following: SUBSECTION: REVISION:

					S	IZES (	SIZES OF COARSE AGGREGATES	SE AC	GREG.	ATES							
	Sieve		Ą	MOUNTS	FINER TH	AN EACI	AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT	TORY SIE	EVE (SQUA	RE OPEN	INGS) PEF	RCENTAG	E BY WEI	ЗНТ			
Aggregate Size	Nominal (3) Maximum Aggregate Size	4 inch	3 1/2 inch	3 inch	2 1/2 inch	2 inch	1 1/2 inch	1 inch	3/4 inch	1/2 inch	3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 100	No. 200
1	3 1/2 inch	100	90-100		25-60		0-15		5-0								
2	2 ½ inch			100	90-100	35-70	0-15		5-0								
23	2 inch			100		40-90		0-15		0-5							
3	2 inch				100	90-100	35-70	0-15		0-5							
357	2 inch				100	95-100	_	35-70		10-30		5-0					
4	1 1/2 inch					100	90-100	20-55	0-15		5-0						
467	1 1/2 inch					100	95-100		35-70		10-30	9-0					
5	1 inch						100	90-100	20-55	0-10	5-0						
57	1 inch						100	95-100		25-60		01-0	5-0				
610	1 inch						100	85-100		40-75		15-40					
29	3/4 inch							100	90-100		20-55	0-10	5-0				
89	3/4 inch							100	90-100		30-65	5-25	0-10	9-0			
710	3/4 inch							100	80-100		30-75	0-30					
78	1/2 inch								100	90-100	40-75	5-25	0-10	9-0			
8	3/8 inch									100	85-100	10-30	0-10	0-5			
9-M	3/8 inch									100	75-100	0-25	0-5				
$10^{(2)}$	No. 4										100	85-100				10-30	
$11^{(2)}$	No. 4										100	40-90	10-40			0-5	
DENSE GRADED AGGREGATE (1)	3/4 inch							100	70-100		08-05	30-65			10-40		4-13
CRUSHED STONE BASE (I)	1 ½ inch				100		90-100		96-09		30-70	15-55			5-20		8-0

Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27.

(2) Sizes shown for convenience and are not to be considered as coarse aggregates.

Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained. 3

Note: The Department will allow blending of same source/same type aggregate when precise procedures are used such as cold feed, belt, or equivalent and combining of sizes or types of aggregate using the weigh hopper at concrete plants or controlled feed belts at the pugmill to obtain designated sizes.

Contract ID: 092253 Page 52 of 76

# Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

SUBSECTION:	805.16 SAMPLING AND TESTING.				
REVISION:	Replace the "AASHTO T 160" method with the "KN	M 64-629" method	for the Concrete I	Ream Expansion	
REVISION.	Test.	VI 04-02) Inclined	Tor the Concrete I	Deam Expansion	
	Tost.				
	Replace the "ASTM D 3042" method with the "KM	64-625" method fo	or Insoluble Resid	ue.	
SUBSECTION:	810.04.01 Coating Requirements.				
REVISION:	Replace the "Subsection 806.07" references with "S	ubsection 806.06"			
SUBSECTION:	810.06.01 Polyvinyl Chloride (PVC) Pipe.				
PART:	B) Culvert and Entrance Pipe.				
REVISION:	Replace the title with the following:				
	B) Culvert Pipe, Storm Sewer, and Entrance Pipe.				
SUBSECTION:	837.03 APPROVAL.				
REVISION:	Replace the last sentence with the following:				
	The Department will sample and evaluate for approv				
	use per contract prior to installation of the thermopla				
	thermoplastic material until it has been approved by			e Department a	
CLIDGE CETON	minimum of 10 working days to evaluate and approve	ve thermoplastic m	ateriai.		
SUBSECTION: REVISION:	837.03.01 Composition. COMPOSITION Table:				
REVISION:	Replace				
	Lead Chromate	0.0 max.	4.0 min.	1	
	with	0.0 max.	7.0 mm.	J	
	Heavy Metals Content	Comply with	1 40 CFR 261	1	
SECTION:	DIVISION 800 MATERIAL DETAILS				
REVISION:	Add the following section in Division 800				
THE VISION	True the rone wing section in 21 vision coo				
	SECTION 846 – DURABLE WATERBO	ORNE PAINT			
	846.01 DESCRIPTION. This section covers quick				
	for permanent applications. The paint shall be read				
	striping paint suitable for application on such tra			ement concrete,	
	bituminous cement concrete, asphalt, tar, and previo	usly painted areas	of these surfaces.		
	846 02 Approval Salast materials that conform to	the composition re	auiramants halaw	Provido	
	846.02 Approval. Select materials that conform to independent analysis data and certification for each time.				
	independent analysis data and certification for each formulation stating the total concentration of each heavy metal present, the test method used for each determination, and compliance to 40 CFR 261 for				
	leachable heavy metals content. Submit initial samp				
	operations. The initial sample may be sent from the				
	randomly sample and evaluate the paint each week t				
	, , , , , , , , , , , , , , , , , , ,	1 0 1	F	_	
	The non-volatile portion of the vehicle shall	ll be composed of a	a 100% acrylic po	lymer as	
	determined by infrared spectral analysis. The acrylic	resin used shall be	e a 100% cross-lin	king acrylic as	
	evidenced by infrared peaks at wavelengths 1568, 16		l with intensities e	equal to those	
	produced by an acrylic resin known to be 100% cros	ss-linking.			

Contract ID: 092253 Page 53 of 76

## **Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition**

(Effective with the July 24, 2009 Letting)

DAINT COMPOSITION				
	PAINT COMPOSITION			
Property and Test Method	Yellow	White		
Daytime Color (CIELAB)	L* 81.76	L* 93.51		
Spectrophotometer using	a* 19.79	a* -1.01		
illuminant D65 at 45°	b* 89.89	b* 0.70		
illumination and 0° viewing with	Maximum allowable variation	Maximum allowable variation		
a 2° observer	2.0ΔE*	2.0ΔE*		
Nighttime Color (CIELAB)	L* 86.90	L* 93.45		
Spectrophotometer using	a* 24.80	a* -0.79		
illuminant A at 45° illumination	b* 95.45	b* 0.43		
and 0° viewing with a 2° observer	Maximum allowable variation	Maximum allowable variation		
	2.0ΔE*	2.0ΔE*		
Heavy Metals Content	Comply with 40 CFR 261	Comply with 40 CFR 261		
Titanium Dioxide	NA	10% by weight of pigment		
ASTM D 4764		min.		
VOC	1.25 lb/gal max.	1.25 lb/gal max.		
ASTM D 2369 and D 4017				
Contrast Ratio	0.97	0.99		
(at 15 mils wft)				

**846.02.01 Manufacturers Certification.** Provide a certification of analysis for each lot of traffic paint produced stating conformance to the requirements of this section. Report the formulation identification, traffic paint trade name, color, date of manufacturer, total quantity of lot produced, actual quantity of traffic paint represented, sampling method utilized to obtain the samples, and data for each sample tested to represent each lot produced.

**846.03** ACCEPTANCE PROCEDURES FOR NON-SPECIFICATION DURABLE WATERBORNE PAVEMENT STRIPING PAINT. When non-specification paint is inadvertently incorporated into the work the Department will accept the material with a reduction in pay. The percentage deduction is cumulative based on its compositional properties, but will not exceed 60 percent. The Department will calculate the payment reduction on the unit bid price for the routes where the non-specification paint was used.

DURABLE V	VATERBOR	NE PAVEMI	ENT STRIPIN	G PAINT R	EDUCTION	SCHEDULE
Non- conforming Property	Resin	Color	Contrast	TiO <sub>2</sub>	VOC	Heavy Metals Content
Reduction Rate	60%	10%	10%	10%	60%	60%

1**I** 

#### SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

**1.0 DESCRIPTION.** Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer.

#### 2.0 MATERIALS.

**2.1 General.** Use LED or flip disk/LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

#### 2.2 Sign and Controls. All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- Provide at least 40 preprogrammed messages available for use at any time.
   Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
  - a) Keyboard or keypad.
  - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
  - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
  - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Allow direct wiring for operation of the sign or arrow board from an external power source when desired.
- Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 8) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 9) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 10) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 11) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.

1I

- 12) Provide a photocell control to provide automatic dimming.
- 13) Allow an on-off flashing sequence at an adjustable rate.
- 14) Provide a sight to aim the message.
- 15) Provide a LED display color of approximately 590 nm amber.
- 16) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/MIN/SPEED/\*\*MPH/  $/KEEP/RIGHT/\Rightarrow\Rightarrow\Rightarrow/$ /ICY/BRIDGE/AHEAD/ /ONE /KEEP/LEFT/===/ LANE/BRIDGE/AHEAD/ /LOOSE/GRAVEL/AHEAD/ /RD WORK/NEXT/\*\*MILES/ /ROUGH/ROAD/AHEAD/ /MERGING/TRAFFIC/AHEAD/ /TWO WAY/TRAFFIC/AHEAD/ /NEXT/\*\*\*/MILES/ /PAINT/CREW/AHEAD/ /HEAVY/TRAFFIC/AHEAD/ /REDUCE/SPEED/\*\*MPH/ /SPEED/LIMIT/\*\*MPH/ /BRIDGE/WORK/\*\*\*0 FT/ /BUMP/AHEAD/ /MAX/SPEED/\*\*MPH/ /TWO/WAY/TRAFFIC/ /SURVEY/PARTY/AHEAD/

Add other messages during the project when required by the Engineer.

- **2.3 Requirements for Flip-Disc Type Signs.** Flip-disc type signs will have the following additional requirements:
  - 1) Disc faces are fluorescent yellow on one side, and flat black on the reverse.
  - Discs are at least 3.5 square inches with a minimum character size of 5 discs horizontally by 7 discs vertically.
  - Discs are designed to operate without lubrication for at least 200 million operations.
  - 4) Line change speed of 600 milliseconds or less.
  - 5) When power is lost, the sign automatically becomes blank or displays a preprogrammed default message.

#### 2.4 Power.

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.
- 2) Diesel Power Source. Ensure the following is provided for:
  - At least 24 spare bulbs available on the project for quick replacement of burned out bulbs.
  - b) Black light at both top and bottom of each line to illuminate discs for visibility at night or under adverse weather conditions, for flip disk signs.
  - c) Diesel generator and electric start assembly, including batteries and a fuel capacity adequate to provide at least 72 hours continuous operation without refueling.
  - d) Fuel gage.
  - e) Provide all other specific features, such as bulb size, protection from sun glare, and shock protection for electronics and bulbs, to the

<sup>\*</sup>Insert numerals as directed by the Engineer.

1I

satisfaction of the Engineer.

**3.0 CONSTRUCTION.** Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater. Unless the Contract specifies flip-disk signs, use Class I signs on interstates and parkways.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel or disk.

When the sign is not needed, move it outside the clear zone or where the Engineer directs.

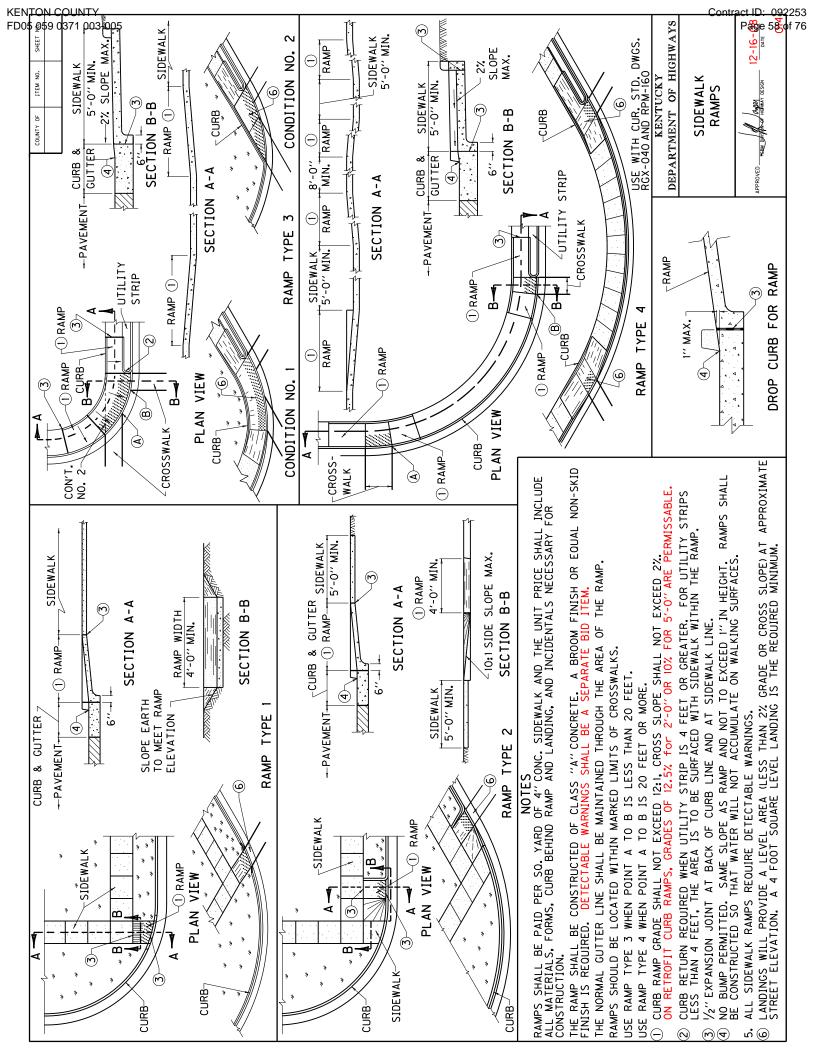
- **4.0 MEASUREMENT.** The final quantity of Variable Message Sign will be the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.
- **5.0 PAYMENT.** The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

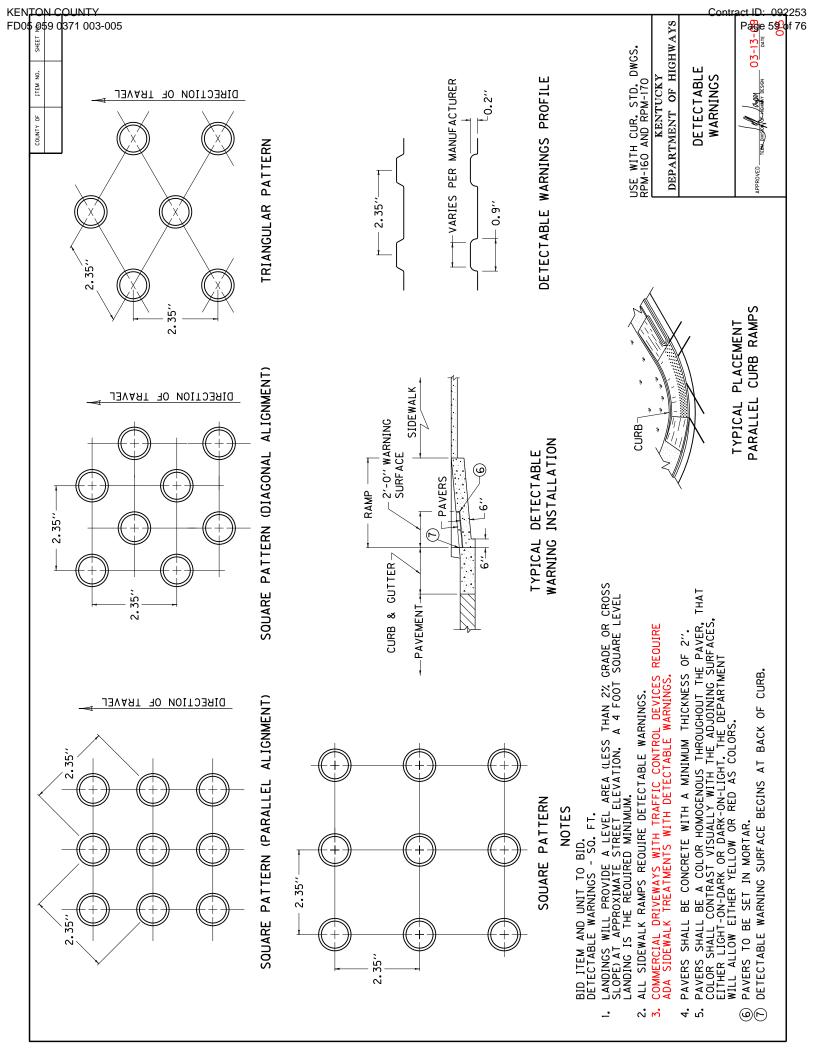
Code	Pay Item	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

January 1, 2008

#### STANDARD DRAWINGS THAT APPLY

CURVE WIDENING AND SUPERELEVATION TRANSITIONS	RGS-001-06
SUPERELEVATION FOR MULTILANE PAVEMENTS	RGS-002-05
MISCELLANEOUS STANDARDS PART 1	RGX-001-05
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT	RPM-110-05
LANE CLOSURE TWO-LANE HIGHWAY CASE I	TTC-100-01
LANE CLOSURE TWO-LANE HIGHWAY CASE II	TTC-105-01
LANE CLOSURE MULTI-LANE HIGHWAY CASE I	TTC-115-01
SHOULDER CLOSURE	
POST SPLICING DETAIL	TTD-110-01
PAVEMENT CONDITION WARNING SIGNS	TTD-125
MOBILE OPERATION FOR PAINT STRIPING CASE I	TTS-100-01
MOBILE OPERATION FOR PAINT STRIPING CASE II	TTS-105-01
MOBILE OPERATION FOR PAINT STRIPING CASE III	TTS-110-01
MOBILE OPERATION FOR PAINT STRIPING CASE IV	TTS-115-01





#### **PART III**

#### EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

KENTON COUNTY FD05 059 0371 003-005

#### Contract ID: 092253 Page 61 of 76

## TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

## LABOR AND WAGE REQUIREMENTS APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

I. Application

II. Nondiscrimination of Employees (KRS 344)

III. Payment of Predetermined Minimum Wages

IV. Statements and Payrolls

#### I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

#### II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY GENERAL ASSEMBLY TO PREVENT DISCRIMINATION IN EMPLOYMENT KRS CHAPTER 344 EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy). The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual

because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

### III. PAYMENT OF PREDETERMINED MINIMUM WAGES

- 1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.
- 2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

#### IV. STATEMENTS AND PAYROLLS

- 1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.
- 2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.
- 3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit

records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

- 4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.
- 5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.
- 6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.
- 7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.
- 8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.
- 9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.
- 10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

- 11. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.
- 12. Payments to the contractor may be suspended or withheld due to failure of the contractor to pay any laborer or

mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95

#### Contract ID: 092253 Page 63 of 76

#### **EXECUTIVE BRANCH CODE OF ETHICS**

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

#### KRS 11A.040 (6) provides:

No present or former public servant shall, within six (6) months of following termination of his office or employment, accept employment, compensation or other economic benefit from any person or business that contracts or does business with the state in matters in which he was directly involved during his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved in state government. This subsection shall not prohibit the performance of ministerial functions, including, but not limited to, filing tax returns, filing applications for permits or licenses, or filing incorporation papers.

#### KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

#### **Kentucky Equal Employment Opportunity Act of 1978**

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under *Vendor Information*, *Standard Attachments and General Terms* at the following address: <a href="https://www.eProcurement.ky.gov">https://www.eProcurement.ky.gov</a>.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

# TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT COMPLIANCE SECTION PROJECT WAGE RATES

	HIGHWAY BASIC HOURLY RATES	FRINGE BENEFIT PAYMENTS COMBINED
CRAFTS:		
Boone, Campbell, Kenton and I	Pendleton Counties:	
Bricklayers		9.49
Carpenters and Piledrivermen	27.05	9.69
Divers	40.58	9.69
Millwrights	21.90	7.92
Cement Masons/		
Concrete Finisher	25.75	8.60
Electricians	26.11	13.32
Sound & Communication:		
Technician	20.45	6.95
Ironworkers:		
Reinforcing: Up to and includ	ing 30- mile radius of Hamilton	County, Ohio Courthouse
	25.20	
•	radius of Hamilton County, Ohi	
	26.45	16.70
	26.17	
Fence Erector	23.55	16.72
Painters:		
(Heavy and Highway Bridges-		
Guardrails-Lightpoles-Striping)	:	
Bridge/Equipment Tender and		
	20.49	
	23.10	6.83
Elevated Tanks;		
Steeplejack Work; Bridge &		
	24.10	6.83
Sandblasting and Water		
9	23.85	
	23.60	
Plumbers	28.39	14.30

Four/Federal-State Sheet 1 of 7

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

# TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT COMPLIANCE SECTION PROJECT WAGE RATES

#### **LABORERS**:

Pendleton County:

GROUP 1 - Aging and Curing of Concrete, Asbestos Abatement Worker, Asphalt Plant, Asphalt, Batch Truck Dump, Carpenter Tender, Cement Mason Tender, Cleaning Of Machines, Concrete, Demolition, Dredging, Drill Tender, Environmental -- Nuclear, Radiation, Toxic and Hazardous Waste - Level D, Flagperson, Grade Checker, Hand Digging and Hand Back Filling, Highway Marker Placer, Landscaping, Mesh Handler and Placer, Puddler, Railroad, Rip-Rap and Grouter, Right-Of-Way, Sign, Guardrail and Fence Installer, Signal Person, Sound Barrier Installer, Storm and Sanitary Sewer, Swamper, Truck Spotter and Dumper and Wrecking of Concrete Forms, General Cleanup.

GROUP 2 - Batter Board Man (Sanitary and Storm Sewer), Brickmason Tender, Mortar Mixer Operator, Scaffold Builder, Burner and Welder, Bushammer, Chain Saw Operator, Concrete Saw Operator, Deckhand Scow Man, Dry Cement Handler, Environmental - Nuclear, Radiation, Toxic and Hazardous Waste - Level C, Forklift Operator For Masonary, Form Setter, Green Concrete Cutting, Hand Operated Grouter and Grinder Machine Operator, Jackhammer, Pavement Breaker, Paving Joint Machine, Pipelayer, Plastic Pipe Fusion, Power Driven Georgia Buggy and Wheel Barrow, Power Post Hole Digger, Precast Manhole Setter, Walk-Behind Tamper, Walk-Behind Trencher, Sand Blaster, Concrete Chipper, Surface Grinder, Vibrator Operator and Wagon Driller.

GROUP 3 - Asphalt Luteman and Raker, Gunnite Nozzleman, Gunnite Operator and Mixer, Grout Pump Operator, Side Rail Setter, Rail Paved Ditch, Screw Operator, Tunnel (free air) and Water Blaster.

GROUP 4 - Caisson Worker (free air), Cement Finisher, Environmental - Nuclear, Radiation, Toxic and Hazardous Waste - Levels A and B, Miner and Driller (free air), Tunnel Blaster and Tunnel Mucker (free air), Directional & Horizontal Boring, Air Track Driller (all types), Powderman & Blaster, Troxler & Concrete Tester if Laborer is utilized.

Four/Federal-State Sheet 2 of 7

#### Contract ID: 092253 Page 67 of 76

# TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT COMPLIANCE SECTION PROJECT WAGE RATES

#### **LABORERS**: (continued)

Boone, Campbell and Kenton Counties:

#### Group 1

Asphalt Laborer, Carpenter Tender, Concrete Curing Applicator, Dump Man (Batch Truck), Guardrail And Fence Installer, Joint Setter, Laborer (Construction), Landscape Laborer, Highway Lighting Worker, Signalization Worker, Mesh Handlers And Placer, Right-Of-Way Laborer, Riprap Laborer And Grouter, Scaffold Erector, Seal Coating, Surface Treatment Or Road Mix Laborer, Sign Installer, Slurry Seal, Utility Man, Bridgeman, Handyman, Waterproofing Laborer, Flagperson, Hazardous Waste (Level D), Diver Tender, Zone Person & Traffic Control.

BASE RATE	25.27
FRINGE BENEFITS	7.50

#### GROUP 2

Skidsteer, Asphalt Raker, Concrete Puddler, Kettle Man (Pipeline), Machine Driven Tools (Gas, Electric, Air), Mason Tender, Brick Paver, Mortar Mixer, Power Buggy or Power Wheelbarrow, Sheeting & Shoring Man, Surface Grinder Man, Plastic Fusing Machine Operator, Pug Mill Operator, & Vacuum Devices (wet or dry), Rodding Machine Operator, Diver, Screw Man or Paver, Screed Person, Water Blast, Hand Held Wand, Pumps 4" and under (gas, air or electric), Hazardous Waste (Level C), Air Track and Wagon Drill, Bottom Person, Cofferdam (below 25 ft. deep), Concrete Saw Person, cutting with Burning Torch, Form Setter, Hand Spiker (Railroad), Pipelayer, Tunnel Laborer (without air) & Caisson, Underground Person (working in sewer and waterline, cleaning, repairing and reconditioning), Sandblaster Nozzleperson and Hazardous Waste (Level B).

BASE RATE	25.44
FRINGE BENEFITS	. 7.50

#### GROUP 3

Blaster, Mucker, Powder Person, Top Lander, Wrencher (Mechanical Joints and Utility Pipeline), Yarner, Hazardous Waste (Level A), Concrete Specialist, Concrete Crew in Tunnels (with air pressurized \$1.00 premium), Curb Setter & Cutter, Grade Checker, Utility Pipeline Tapper, Waterline, and Caulker.

BASE RATE	25.77
FRINGE BENEFITS	7.50

#### GROUP 4

Miner, Tunnel Laborer (with air-pressurized add \$1.00 to Base Rate) and Gunnite Nozzle Person.

BASE RATE	26.22
FRINGE BENEFITS	7.50

Signal person will receive the rate equal to the rate paid the labor classification for which he or she is signaling.

Four/Federal-State Sheet 3 of 7

#### Contract ID: 092253 Page 68 of 76

#### TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT **COMPLIANCE SECTION** PROJECT WAGE RATES

Truck Drivers	BASE RATEFRINGE BENEFITS	
Euclid Wagon, End Dump, Low-Boy, Heavy		

FRINGE BENEFITS......4.60

#### **OPERATING ENGINEERS:**

Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. Capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Horizontal Directional Drill (over 500,000 ft. lbs. thurst); Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; & Wheel Excavator

BASE RATE	29.49
FRINGE BENEFITS	11.16

Four/Federal-State Sheet 4 of 7 KENTON COUNTY FD05 059 0371 003-005

#### Contract ID: 092253 Page 69 of 76

# TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT COMPLIANCE SECTION PROJECT WAGE RATES

#### **OPERATING ENGINEERS:** (continued)

Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48"; Bulldozer; Endloader; Hydro Milling Machine; Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Mahcine (24" wide & under); & Vermeer type Concrete Saw

A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4" & over discharge); Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); & Welding Machines.

Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway) except Masonry); Finishing Machine; Fireperson, Floating Equipment (all types); Fork Lift (highway); Form Trencher; Hydro Hammer; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); & Vibratory Compactor with Integral Power.

**OPERATING ENGINEERS:** (continued)

Four/Federal-State Sheet 5 of 7

#### Contract ID: 092253 Page 70 of 76

# TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT COMPLIANCE SECTION PROJECT WAGE RATES

Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (Asphalt); Generator; Masonry fork Lift; Inboard-Outboard Motor Boat Launch; Masonry Fork Lift; Oil Heater (asphalt plant); Oiler; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4" discharge); Signalperson; Tire Repairperson; & VAC/ALLS.

<b>BASE RATE</b> 21.69
<b>FRINGE BENEFITS</b> 11.16
<b>BASE RATE</b> 29.74
<b>FRINGE BENEFITS</b> 11.16
<b>BASE RATE</b> 29.99
FRINGE BENEFITS 11.16

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

These rates are listed pursuant to Kentucky Determination No. CR-06-IV HWY dated July 10, 2007 and/or Federal Decision No. KY20080028 dated February 8, 2008, modification #0 dated February 8, 2008, modification #1 dated March 7, 2008, modification #2 dated May 2, 2008, modification #3 dated June 6, 2008, modification #4 dated July 4, 2008, modification #5 dated August 15, 2008, modification #6 dated September 5, 2008, modification #7 dated October, 3, 2008, modification #8 dated November 7, 2008, modification #9 dated December 5, 2008, modification #10 dated January 2, 2009, modification #11 dated February 6, 2009, modification #12 dated May 1, 2009, modification #13 dated June 5, 2009 and modification #14 dated July 3, 2009.

No laborer, workman or mechanic shall be paid at a rate less than that of the General Laborer except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

Four/Federal-State Sheet 6 of 7

#### Contract ID: 092253 Page 71 of 76

# TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT COMPLIANCE SECTION PROJECT WAGE RATES

TO: EMPLOYERS/EMPLOYEES

#### **PREVAILING WAGE SCHEDULE:**

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

#### **OVERTIME:**

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or the undersigned.

Ryan Griffith, Director Division of Construction Procurement Frankfort, Kentucky 40622

Four/Federal-State Sheet 7 of 7

#### **PART IV**

#### **INSURANCE**

#### Contract ID: 092253 Page 73 of 76

#### INSURANCE

The Contractor shall carry the following insurance in addition to the insurance required by law:

- 1. Contractor's Public Liability Insurance not less than \$100,000.00 for damages arising out of bodily injuries to or death to one person. Not less than \$300,000.00 for damages arising out of bodily injuries to or death to two or more persons.
- 2. Contractor's Property Damages Liability Insurance. Not less than \$100,000.00 for all damages arising out of injury or destruction of property in any one accident. Not less than \$300,000.00 for all damages during the policy period.
- 3. Contractor's Protective Public Liability and Property Damage Insurance. The contractor shall furnish evidence with respect to operations performed for him by subcontractors that he carries in his own behalf for the above stipulated amounts.
- 4. The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
  - a. "policy contains no deductible clauses."
    b. "policy contains \_\_\_\_\_\_ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
- 5. WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

#### **PART V**

#### **BID ITEMS**

KENTON COUNTY FD05 059 0371 003-005

#### KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

Contract ID: 092253 Page 75 of 76

CONTRACT ID: 092253

COUNTY: KENTON

PROPOSAL: FD05 059 0371 003-005

PAGE: 1 LETTING: 07/24/09 CALL NO: 317

LINE NO	ITEM	DESCRIPTION	APPROXIMATE U	 JNIT   	UNIT PRICE	AMOUNT
	SECTION 0001	ROADWAY				
0010	00190 	LEVELING & WEDGING PG64-22	55.000 	TON		
0020	00388	CL3 ASPH SURF 0.38B PG64-22	1,120.000	TON		
0030	02562 	SIGNS	330.000	SQFT		   
0040	02650 	MAINTAIN & CONTROL TRAFFIC	( 1.00)	LS		
0050	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.000	EACH		
0060	02676 	MOBILIZATION FOR MILL & TEXT	( 1.00)	LS		   
0070	02677 	ASPHALT PAVE MILLING & TEXTURING	20.000	TON		   
0080	02720	SIDEWALK-4 IN CONCRETE	15.000 	SQYD		   
0090	02775	ARROW PANEL	2.000	EACH		
0100	04830	LOOP WIRE	760.000	LF		   
0110	04895	LOOP SAW SLOT AND FILL	504.000	LF		 
0120	06510 	PAVE STRIPING-TEMP PAINT-4 IN	4,500.000	LF		   
0130	06514 	PAVE STRIPING-PERM PAINT-4 IN	19,052.000 	LF		   
0140	06565	PAVE MARKING-THERMO X-WALK-6 IN	88.000 	LF		 
0150		PAVE MARKING-THERMO STOP BAR-24IN	57.000	LF		
0160		PAVE MARKING-THERMO CURV ARROW	2.000	EACH		   
0170	06575	PAVE MARKING-THERMO COMB ARROW	2.000	j		
0180	06576	PAVE MARKING-THERMO ONLY	1.000			
0190	06600 	REMOVE PAVEMENT MARKER TYPE V	10.000	EACH		
0220	23158ES505	DETECTABLE WARNINGS	24.000	SQFT		
	SECTION 0002	DEMOBILIZATION				

KENTON COUNTY FD05 059 0371 003-005

#### KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

Contract ID: 092253 Page 76 of 76

CONTRACT ID: 092253

COUNTY: KENTON

PROPOSAL: FD05 059 0371 003-005

PAGE: 2 LETTING: 07/24/09

CALL NO: 317

LINE NO	  ITEM 	DESCRIPTION		APPROXIMATE UNIT   QUANTITY	UNIT PRICE	AMOUNT
0230	02569 	DEMOBILIZATION	(AT LEAST 1.5%)	LUMP		
	   	TOTAL BID				